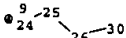
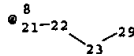
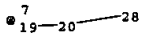
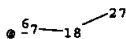
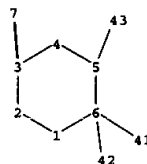
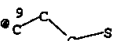
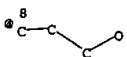
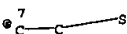
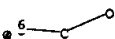
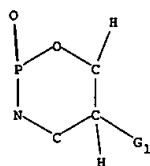


4 of 11



chain nodes :

7 10 15 27 41 42 43

ring nodes :

1 2 3 4 5 6

ring/chain nodes :

8 9 11 12 13 14 16 17 18 19 20 21 22 23 24 25 26 28 29 30

chain bonds :

3-7 5-43 6-41 6-42 8-10 13-14 13-15 18-27

ring/chain bonds :

8-9 17-18 19-20 20-28 21-22 22-23 23-29 24-25 25-26 26-30

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 2-3 3-4 3-7 4-5 5-6 6-41 8-9 13-14 17-18 18-27 19-20 20-28 21-22  
22-23 23-29 24-25 25-26 26-30

exact bonds :

5-43 6-42 8-10 13-15

G1:[\*1],[\*2],[\*3],[\*4],[\*5],[\*6],[\*7],[\*8],[\*9]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS  
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS  
29:CLASS 30:CLASS 41:CLASS 42:CLASS 43:CLASS

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Welcome to STN International! Enter x:x

LOGINID:ssspta1611txm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web  
NEWS 3 Jan 29 FSTA has been reloaded and moves to weekly updates  
NEWS 4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update frequency  
NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02  
NEWS 6 Mar 08 Gene Names now available in BIOSIS  
NEWS 7 Mar 22 TOXLIT no longer available  
NEWS 8 Mar 22 TRCTHERMO no longer available  
NEWS 9 Mar 28 US Provisional Priorities searched with P in CA/CAPLUS and USPATFULL  
NEWS 10 Mar 28 LIPINSKI/CALC added for property searching in REGISTRY  
NEWS 11 Apr 02 PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.  
NEWS 12 Apr 08 "Ask CAS" for self-help around the clock  
NEWS 13 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area  
NEWS 14 Apr 09 ZDB will be removed from STN  
NEWS 15 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB  
NEWS 16 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS  
NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available  
NEWS 19 Jun 03 New e-mail delivery for search results now available  
NEWS 20 Jun 10 MEDLINE Reload  
NEWS 21 Jun 10 PCTFULL has been reloaded  
NEWS 22 Jul 02 FOREGE no longer contains STANDARDS file segment  
  
NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002  
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NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 11:26:52 ON 11 JUL 2002

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 11:27:11 ON 11 JUL 2002

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STRUCTURE FILE UPDATES: 9 JUL 2002 HIGHEST RN 437979-76-5

DICTIONARY FILE UPDATES: 9 JUL 2002 HIGHEST RN 437979-76-5

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading 09518501.str

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 11:27:32 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

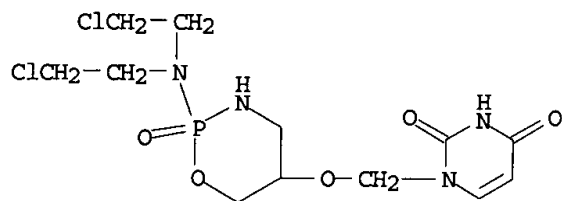
PROJECTED ITERATIONS: 4 TO 200

PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> d scan

L2 2 ANSWERS REGISTRY COPYRIGHT 2002 ACS  
 IN 2,4(1H,3H)-Pyrimidinedione, 1-[[[2-[bis(2-chloroethyl)amino]tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-5-yl]oxy]methyl]- (9CI)  
 MF C12 H19 Cl2 N4 O5 P



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l1 sss full  
FULL SEARCH INITIATED 11:28:16 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 153 TO ITERATE

100.0% PROCESSED 153 ITERATIONS  
SEARCH TIME: 00.00.03

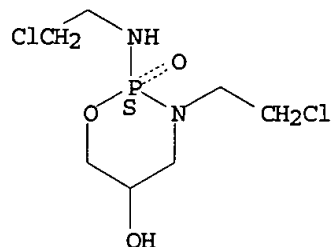
33 ANSWERS

L3 33 SEA SSS FUL L1

=> d 1-33 ide cbib pi

L3 ANSWER 1 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 209266-78-4 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-5-ol, 3-(2-chloroethyl)-2-[(2-chloroethyl)amino]tetrahydro-, 2-oxide, (2S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C7 H15 Cl2 N2 O3 P  
 SR CA  
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

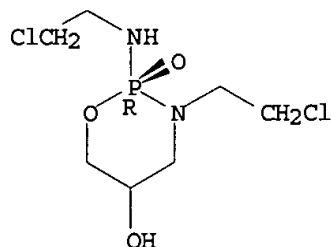


1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:75953 Effects of phenobarbital on stereoselective metabolism of ifosfamide in rats. Lu, Hong; Wang, Jeff J.; Chan, Kenneth K.; Young, Donn (Colleges of Pharmacy and Medicine, Comprehensive Cancer Center, The Ohio State University, Columbus, OH, 43210, USA). Drug Metabolism and Disposition, 26(5), 476-482 (English) 1998. CODEN: DMDSAI.  
 ISSN: 0090-9556. Publisher: Williams & Wilkins.

L3 ANSWER 2 OF 33 REGISTRY COPYRIGHT 2002 ACS  
RN 209266-77-3 REGISTRY  
CN 2H-1,3,2-Oxazaphosphorin-5-ol, 3-(2-chloroethyl)-2-[(2-chloroethyl)amino]tetrahydro-, 2-oxide, (2R)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C7 H15 Cl2 N2 O3 P  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



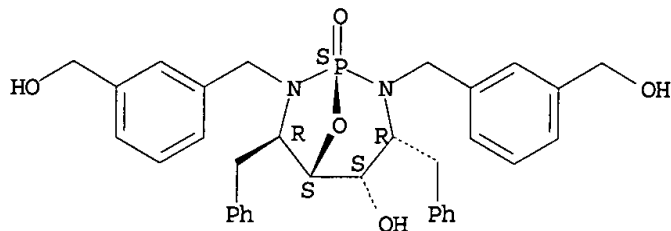
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:75953 Effects of phenobarbital on stereoselective metabolism of ifosfamide in rats. Lu, Hong; Wang, Jeff J.; Chan, Kenneth K.; Young, Donn (Colleges of Pharmacy and Medicine, Comprehensive Cancer Center, The Ohio State University, Columbus, OH, 43210, USA). Drug Metabolism and Disposition, 26(5), 476-482 (English) 1998. CODEN: DMDSAI.  
ISSN: 0090-9556. Publisher: Williams & Wilkins.



L3 ANSWER 3 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 180600-07-1 REGISTRY  
 CN 8-Oxa-2,7-diaza-1-phosphabicyclo[3.2.1]octan-4-ol, 2,7-bis[[3-(hydroxymethyl)phenyl]methyl]-3,6-bis(phenylmethyl)-, 1-oxide, [1S-(3-endo,4-endo,6-exo)]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C34 H37 N2 O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

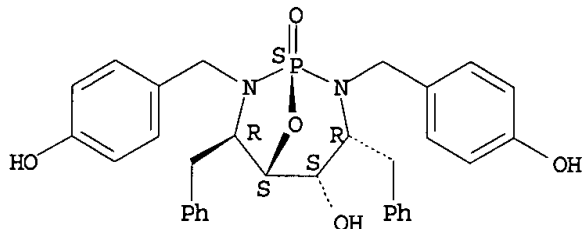
REFERENCE 1: 125:195699 Preparation of substituted bicyclic phosphoramidates as retroviral protease inhibitors. Smallheer, Joanne M. (The Dupont Merck

Pharmaceutical Company, USA). U.S. US 5543517 A 19960806, 26 pp. (English). CODEN: USXXAM. APPLICATION: US 1994-181117 19940113.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5543517	A	19960806	US 1994-181117	19940113

L3 ANSWER 4 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 180600-06-0 REGISTRY  
 CN 8-Oxa-2,7-diaza-1-phosphabicyclo[3.2.1]octan-4-ol, 2,7-bis[(4-hydroxyphenyl)methyl]-3,6-bis(phenylmethyl)-, 1-oxide, [1S-(3-endo,4-endo,6-exo)]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C32 H33 N2 O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

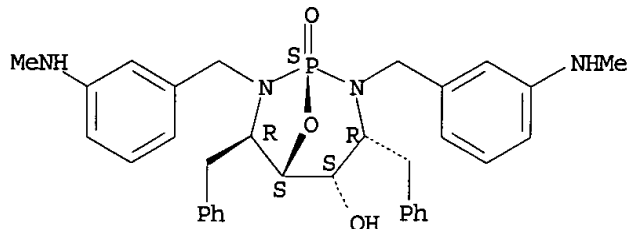
REFERENCE 1: 126:131542 Novel bicyclic phosphordiamidate HIV protease inhibitors. Smallheer, Joanne M.; Seitz, Steven P. (The DuPont Merck Pharm. Co., Inc., Wilmington, DE, 19808, USA). Heterocycles, 43(11), 2367-2376 (English) 1996. CODEN: HTCYAM. ISSN: 0385-5414. Publisher: Japan Institute of Heterocyclic Chemistry.

REFERENCE 2: 125:195699 Preparation of substituted bicyclic phosphoramides as retroviral protease inhibitors. Smallheer, Joanne M. (The Dupont Merck Pharmaceutical Company, USA). U.S. US 5543517 A 19960806, 26 pp. (English). CODEN: USXXAM. APPLICATION: US 1994-181117 19940113.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5543517	A	19960806	US 1994-181117	19940113

L3 ANSWER 5 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 180600-05-9 REGISTRY  
 CN 8-Oxa-2,7-diaza-1-phosphabicyclo[3.2.1]octan-4-ol, 2,7-bis[[3-(methylamino)phenyl]methyl]-3,6-bis(phenylmethyl)-, 1-oxide, [1S-(3-endo,4-endo,6-exo)]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C34 H39 N4 O3 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

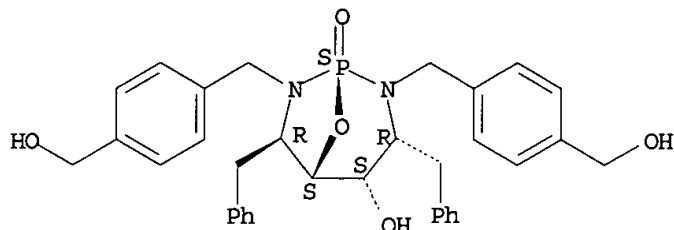
REFERENCE 1: 125:195699 Preparation of substituted bicyclic phosphoramides as retroviral protease inhibitors. Smallheer, Joanne M. (The Dupont Merck

Pharmaceutical Company, USA). U.S. US 5543517 A 19960806, 26 pp. (English). CODEN: USXXAM. APPLICATION: US 1994-181117 19940113.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5543517	A	19960806	US 1994-181117	19940113

L3 ANSWER 6 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 180600-04-8 REGISTRY  
 CN 8-Oxa-2,7-diaza-1-phosphabicyclo[3.2.1]octan-4-ol, 2,7-bis[[4-(hydroxymethyl)phenyl]methyl]-3,6-bis(phenylmethyl)-, 1-oxide, [1S-(3-endo,4-endo,6-exo)]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C34 H37 N2 O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

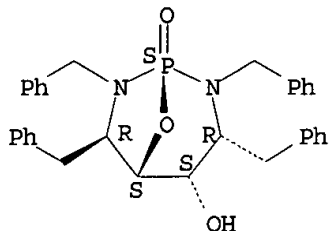
REFERENCE 1: 126:131542 Novel bicyclic phosphordiamidate HIV protease inhibitors. Smallheer, Joanne M.; Seitz, Steven P. (The DuPont Merck Pharm. Co., Inc., Wilmington, DE, 19808, USA). Heterocycles, 43(11), 2367-2376 (English) 1996. CODEN: HTCYAM. ISSN: 0385-5414. Publisher: Japan Institute of Heterocyclic Chemistry.

REFERENCE 2: 125:195699 Preparation of substituted bicyclic phosphoramides as retroviral protease inhibitors. Smallheer, Joanne M. (The Dupont Merck Pharmaceutical Company, USA). U.S. US 5543517 A 19960806, 26 pp. (English). CODEN: USXXAM. APPLICATION: US 1994-181117 19940113.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5543517	A	19960806	US 1994-181117	19940113

L3 ANSWER 7 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 180600-03-7 REGISTRY  
 CN 8-Oxa-2,7-diaza-1-phosphabicyclo[3.2.1]octan-4-ol, 2,3,6,7-tetrakis(phenylmethyl)-, 1-oxide, [1S-(3-endo,4-endo,6-exo)]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C32 H33 N2 O3 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

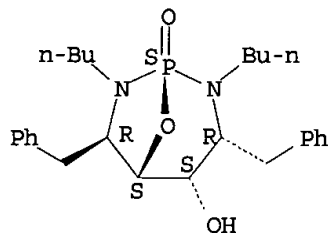
REFERENCE 1: 126:131542 Novel bicyclic phosphordiamidate HIV protease inhibitors. Smallheer, Joanne M.; Seitz, Steven P. (The DuPont Merck Pharm. Co., Inc., Wilmington, DE, 19808, USA). Heterocycles, 43(11), 2367-2376 (English) 1996. CODEN: HTCYAM. ISSN: 0385-5414. Publisher: Japan Institute of Heterocyclic Chemistry.

REFERENCE 2: 125:195699 Preparation of substituted bicyclic phosphoramides as retroviral protease inhibitors. Smallheer, Joanne M. (The Dupont Merck Pharmaceutical Company, USA). U.S. US 5543517 A 19960806, 26 pp. (English). CODEN: USXXAM. APPLICATION: US 1994-181117 19940113.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5543517	A	19960806	US 1994-181117	19940113

L3 ANSWER 8 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 180600-02-6 REGISTRY  
 CN 8-Oxa-2,7-diaza-1-phosphabicyclo[3.2.1]octan-4-ol, 2,7-dibutyl-3,6-bis(phenylmethyl)-, 1-oxide, [1S-(3-endo,4-endo,6-exo)]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C26 H37 N2 O3 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

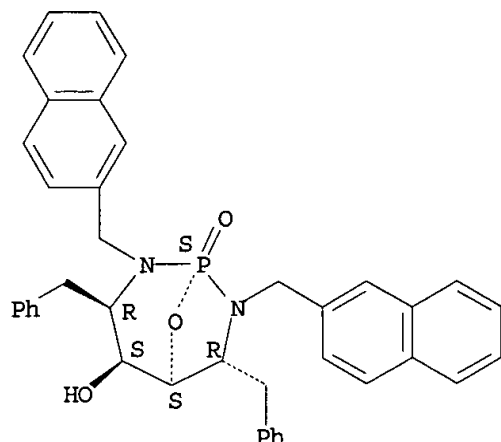
REFERENCE 1: 126:131542 Novel bicyclic phosphordiamidate HIV protease inhibitors. Smallheer, Joanne M.; Seitz, Steven P. (The DuPont Merck Pharm. Co., Inc., Wilmington, DE, 19808, USA). Heterocycles, 43(11), 2367-2376 (English) 1996. CODEN: HTCYAM. ISSN: 0385-5414. Publisher: Japan Institute of Heterocyclic Chemistry.

REFERENCE 2: 125:195699 Preparation of substituted bicyclic phosphoramides as retroviral protease inhibitors. Smallheer, Joanne M. (The Dupont Merck Pharmaceutical Company, USA). U.S. US 5543517 A 19960806, 26 pp. (English). CODEN: USXXAM. APPLICATION: US 1994-181117 19940113.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5543517	A	19960806	US 1994-181117	19940113

L3 ANSWER 9 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 180600-01-5 REGISTRY  
 CN 8-Oxa-2,7-diaza-1-phosphabicyclo[3.2.1]octan-4-ol, 2,7-bis(2-naphthalenylmethyl)-3,6-bis(phenylmethyl)-, 1-oxide, [1S-(3-endo,4-endo,6-exo)]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C40 H37 N2 O3 P  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:131542 Novel bicyclic phosphordiamidate HIV protease inhibitors. Smallheer, Joanne M.; Seitz, Steven P. (The DuPont Merck Pharm. Co., Inc., Wilmington, DE, 19808, USA). Heterocycles, 43(11), 2367-2376 (English) 1996. CODEN: HTCYAM. ISSN: 0385-5414. Publisher: Japan Institute of Heterocyclic Chemistry.

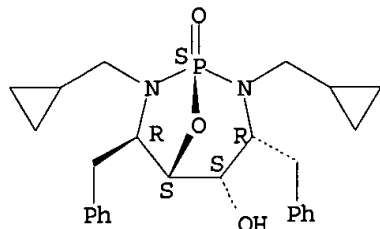
REFERENCE 2: 125:195699 Preparation of substituted bicyclic phosphoramides as retroviral protease inhibitors. Smallheer, Joanne M. (The Dupont Merck

Pharmaceutical Company, USA). U.S. US 5543517 A 19960806, 26 pp. (English). CODEN: USXXAM. APPLICATION: US 1994-181117 19940113. PATENT NO. KIND DATE APPLICATION NO. DATE

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5543517	A	19960806	US 1994-181117	19940113

L3 ANSWER 10 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 180600-00-4 REGISTRY  
 CN 8-Oxa-2,7-diaza-1-phosphabicyclo[3.2.1]octan-4-ol, 2,7-bis(cyclopropylmethyl)-3,6-bis(phenylmethyl)-, 1-oxide, [1S-(3-endo,4-endo,6-exo)]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C26 H33 N2 O3 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:131542 Novel bicyclic phosphordiamidate HIV protease inhibitors. Smallheer, Joanne M.; Seitz, Steven P. (The DuPont Merck Pharm. Co., Inc., Wilmington, DE, 19808, USA). Heterocycles, 43(11), 2367-2376 (English) 1996. CODEN: HTCYAM. ISSN: 0385-5414. Publisher: Japan Institute of Heterocyclic Chemistry.

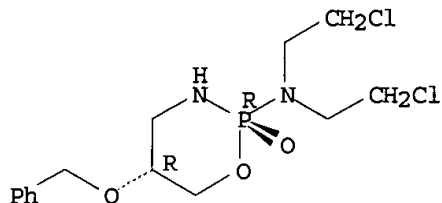
REFERENCE 2: 125:195699 Preparation of substituted bicyclic phosphoramides as retroviral protease inhibitors. Smallheer, Joanne M. (The Dupont Merck Pharmaceutical Company, USA). U.S. US 5543517 A 19960806, 26 pp. (English). CODEN: USXXAM. APPLICATION: US 1994-181117 19940113.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5543517	A	19960806	US 1994-181117	19940113



L3 ANSWER 11 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 143492-72-2 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-5-(phenylmethoxy)-, 2-oxide, (2R-trans)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C14 H21 Cl2 N2 O3 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.



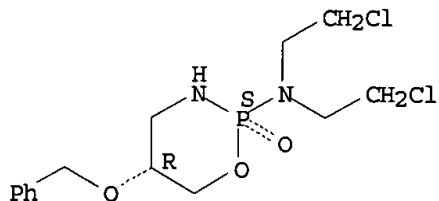
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 117:151065 Asymmetric synthesis of  
 2-(bis(2-chloroethyl)amino)-  
 5-benzyloxytetrahydro-2H-1,3,2-oxazaphosphorine-2-oxide. Chen, Ruyu;  
 Zhang, Ming (Inst. Elem. Org. Chem., Nankai Univ., Tianjin, 300071, Peop.  
 Rep. China). Gaodeng Xuexiao Huaxue Xuebao, 13(3), 352-4 (Chinese) 1992.  
 CODEN: KTHPDM. ISSN: 0251-0790.

L3 ANSWER 12 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 143442-21-1 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-5-(phenylmethoxy)-, 2-oxide, (2S-cis)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C14 H21 Cl2 N2 O3 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.



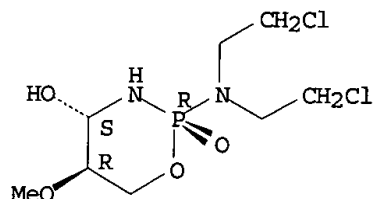
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 117:151065 Asymmetric synthesis of  
 2-(bis(2-chloroethyl)amino)-  
 5-benzyloxytetrahydro-2H-1,3,2-oxazaphosphorine-2-oxide. Chen, Ruyu;  
 Zhang, Ming (Inst. Elem. Org. Chem., Nankai Univ., Tianjin, 300071, Peop.  
 Rep. China). Gaodeng Xuexiao Huaxue Xuebao, 13(3), 352-4 (Chinese) 1992.  
 CODEN: KTHPDM. ISSN: 0251-0790.

L3 ANSWER 13 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 136235-82-0 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-4-ol, 2-[bis(2-chloroethyl)amino]tetrahydro-5-methoxy-, 2-oxide, (2.alpha.,4.beta.,5.alpha.)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C8 H17 Cl2 N2 O4 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Relative stereochemistry.



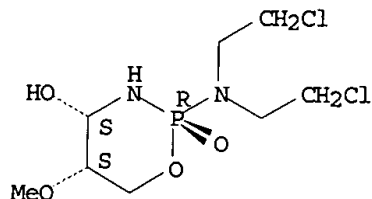
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:183451 Synthesis and antitumor properties of activated cyclophosphamide analogs. Borch, Richard F.; Canute, Gregory W. (Dep. Pharmacol., Univ. Rochester, Rochester, NY, 14642, USA). J. Med. Chem., 34(10), 3044-52 (English) 1991. CODEN: JMCMAR. ISSN: 0022-2623.

L3 ANSWER 14 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 136235-81-9 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-4-ol, 2-[bis(2-chloroethyl)amino]tetrahydro-5-methoxy-, 2-oxide, (2.alpha.,4.beta.,5.beta.)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C8 H17 Cl2 N2 O4 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Relative stereochemistry.



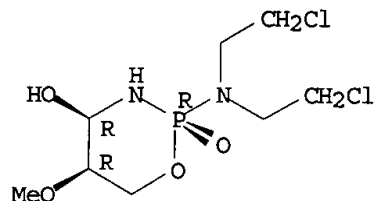
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
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REFERENCE 1: 115:183451 Synthesis and antitumor properties of activated cyclophosphamide analogs. Borch, Richard F.; Canute, Gregory W. (Dep. Pharmacol., Univ. Rochester, Rochester, NY, 14642, USA). J. Med. Chem., 34(10), 3044-52 (English) 1991. CODEN: JMCMAR. ISSN: 0022-2623.

L3 ANSWER 15 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 136235-80-8 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-4-ol, 2-[bis(2-chloroethyl)amino]tetrahydro-5-methoxy-, 2-oxide, (2.alpha.,4.alpha.,5.alpha.)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C8 H17 Cl2 N2 O4 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Relative stereochemistry.



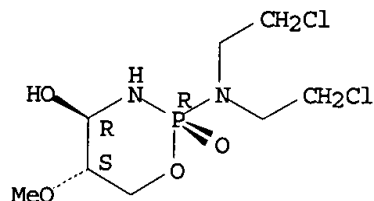
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:183451 Synthesis and antitumor properties of activated cyclophosphamide analogs. Borch, Richard F.; Canute, Gregory W. (Dep. Pharmacol., Univ. Rochester, Rochester, NY, 14642, USA). J. Med. Chem., 34(10), 3044-52 (English) 1991. CODEN: JMCMAR. ISSN: 0022-2623.

L3 ANSWER 16 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 136235-79-5 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-4-ol, 2-[bis(2-chloroethyl)amino]tetrahydro-5-methoxy-, 2-oxide, (2.alpha.,4.alpha.,5.beta.)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C8 H17 Cl2 N2 O4 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Relative stereochemistry.

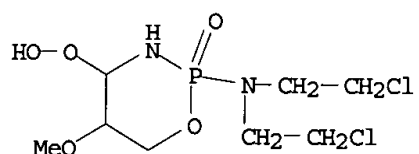


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:183451 Synthesis and antitumor properties of activated cyclophosphamide analogs. Borch, Richard F.; Canute, Gregory W. (Dep. Pharmacol., Univ. Rochester, Rochester, NY, 14642, USA). J. Med. Chem., 34(10), 3044-52 (English) 1991. CODEN: JMCMAR. ISSN: 0022-2623.

L3 ANSWER 17 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 136235-78-4 REGISTRY  
 CN Hydroperoxide,  
 2-[bis(2-chloroethyl)amino]tetrahydro-5-methoxy-2-oxido-2H-  
 1,3,2-oxazaphosphorin-4-yl, (2.alpha.,4.alpha.,5.beta.)- (9CI) (CA INDEX  
 NAME)  
 OTHER CA INDEX NAMES:  
 CN 2H-1,3,2-Oxazaphosphorin, hydroperoxide deriv.  
 CN Hydroperoxide, 2-[bis(2-chloroethyl)amino]tetrahydro-5-methoxy-2H-1,3,2-  
 oxazaphosphorin-4-yl, P-oxide, (2.alpha.,4.alpha.,5.beta.)-  
 MF C8 H17 Cl2 N2 O5 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)



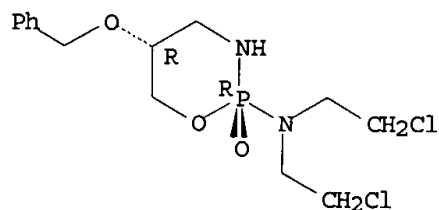
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1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:183451 Synthesis and antitumor properties of activated  
 cyclophosphamide analogs. Borch, Richard F.; Canute, Gregory W. (Dep.  
 Pharmacol., Univ. Rochester, Rochester, NY, 14642, USA). J. Med. Chem.,  
 34(10), 3044-52 (English) 1991. CODEN: JMCMAR. ISSN: 0022-2623.

L3 ANSWER 18 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 136235-77-3 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-5-(phenylmethoxy)-, 2-oxide, trans- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 DR 85880-48-4  
 MF C14 H21 Cl2 N2 O3 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Relative stereochemistry.



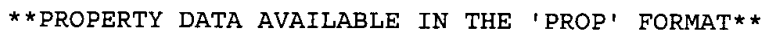
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:183451 Synthesis and antitumor properties of activated cyclophosphamide analogs. Borch, Richard F.; Canute, Gregory W. (Dep. Pharmacol., Univ. Rochester, Rochester, NY, 14642, USA). J. Med. Chem., 34(10), 3044-52 (English) 1991. CODEN: JMCMAR. ISSN: 0022-2623.



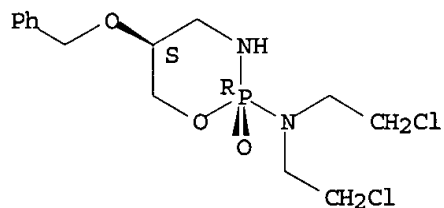
Relative stereochemistry.



REFERENCE 1: 115:183451 Synthesis and antitumor properties of activated cyclophosphamide analogs. Borch, Richard F.; Canute, Gregory W. (Dep. Pharmacol., Univ. Rochester, Rochester, NY, 14642, USA). J. Med. Chem., 34(10), 3044-52 (English) 1991. CODEN: JMCMAR. ISSN: 0022-2623.

L3 ANSWER 20 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 136235-75-1 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-5-(phenylmethoxy)-, 2-oxide, cis- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 DR 85880-47-3  
 MF C14 H21 Cl2 N2 O3 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Relative stereochemistry.



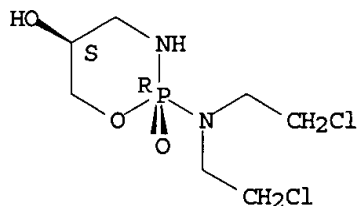
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1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:183451 Synthesis and antitumor properties of activated cyclophosphamide analogs. Borch, Richard F.; Canute, Gregory W. (Dep. Pharmacol., Univ. Rochester, Rochester, NY, 14642, USA). J. Med. Chem., 34(10), 3044-52 (English) 1991. CODEN: JMCMAR. ISSN: 0022-2623.

L3 ANSWER 21 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 136235-74-0 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-5-ol, 2-[bis(2-chloroethyl)amino]tetrahydro-,  
 2-oxide, cis- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 DR 85880-50-8  
 MF C7 H15 Cl2 N2 O3 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Relative stereochemistry.

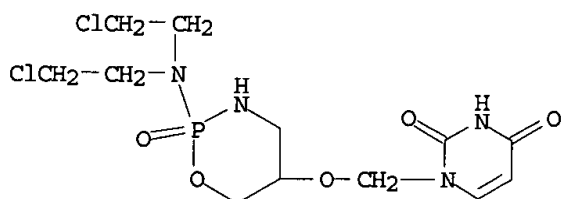


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:183451 Synthesis and antitumor properties of activated  
 cyclophosphamide analogs. Borch, Richard F.; Canute, Gregory W. (Dep.  
 Pharmacol., Univ. Rochester, Rochester, NY, 14642, USA). J. Med. Chem.,  
 34(10), 3044-52 (English) 1991. CODEN: JMCMAR. ISSN: 0022-2623.

L3 ANSWER 22 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 130278-00-1 REGISTRY  
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[[[2-[bis(2-chloroethyl)amino]tetrahydro-2H-oxido-2H-1,3,2-oxazaphosphorin-5-yl]oxy]methyl]- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2,4(1H,3H)-Pyrimidinedione,  
 1-[[[2-[bis(2-chloroethyl)amino]tetrahydro-2H-1,3,2-oxazaphosphorin-5-yl]oxy]methyl]-, P-oxide  
 CN 2H-1,3,2-Oxazaphosphorine, 2,4(1H,3H)-pyrimidinedione deriv.  
 FS 3D CONCORD  
 MF C12 H19 Cl2 N4 O5 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
 (\*File contains numerically searchable property data)

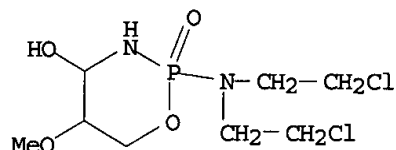


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:212552 The syntheses of purine and pyrimidine  
 secoribonucleosides. Acyclouridine derivative of cyclophosphamide.  
 Zakerinia, Maryam; Davary, Hady; Hakimelahi, Gholam H. (Chem. Dep.,  
 Shiraz Univ., Shiraz, Iran). Helv. Chim. Acta, 73(4), 912-15 (English) 1990.  
 CODEN: HCACAV. ISSN: 0018-019X.

L3 ANSWER 23 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 105047-74-3 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-4-ol, 2-[bis(2-chloroethyl)amino]tetrahydro-5-methoxy-, 2-oxide (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C8 H17 Cl2 N2 O4 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

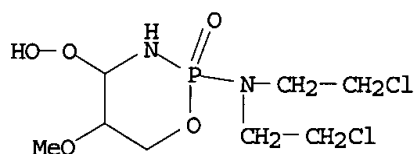


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 105:183425 Synthesis of reactive metabolite-analogs of cyclophosphamide for comparisons of NMR kinetic parameters and anticancer screening data. Ludeman, S. M.; Boyd, V. L.; Regan, J. B.; Gallo, K. A.; Zon, G.; Ishii, K. (Dep. Chem., Cathol. Univ. America, Washington, DC, 20064, USA). Drugs Exp. Clin. Res., 12(6-7), 527-32 (English) 1986. CODEN: DECRDP. ISSN: 0378-6501.

L3 ANSWER 24 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 105028-37-3 REGISTRY  
 CN Hydroperoxide,  
 2-[bis(2-chloroethyl)amino]tetrahydro-5-methoxy-2-oxido-2H-  
 1,3,2-oxazaphosphorin-4-yl (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2H-1,3,2-Oxazaphosphorin, hydroperoxide deriv.  
 CN Hydroperoxide, 2-[bis(2-chloroethyl)amino]tetrahydro-5-methoxy-2H-1,3,2-  
 oxazaphosphorin-4-yl, P-oxide  
 FS 3D CONCORD  
 MF C8 H17 Cl2 N2 O5 P  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

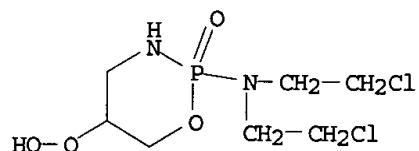


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

- REFERENCE 1: 112:77337 Fast-atom-bombardment mass spectra of  
 5-substituted-4-hydroperoxycyclophosphamides. Phillips, Lawrence R.;  
 Zon,  
 Gerald; Bone, William M.; Boyd, Victoria L.; Ludeman, Susan M. (Cent.  
 Biol. Eval. Res., FDA, Bethesda, MD, 20892, USA). Org. Mass Spectrom.,  
 24(5), 347-9 (English) 1989. CODEN: ORMSBG. ISSN: 0030-493X.
- REFERENCE 2: 105:183425 Synthesis of reactive metabolite-analogs of  
 cyclophosphamide for comparisons of NMR kinetic parameters and anticancer  
 screening data. Ludeman, S. M.; Boyd, V. L.; Regan, J. B.; Gallo, K. A.;  
 Zon, G.; Ishii, K. (Dep. Chem., Cathol. Univ. America, Washington, DC,  
 20064, USA). Drugs Exp. Clin. Res., 12(6-7), 527-32 (English) 1986.  
 CODEN: DECRDP. ISSN: 0378-6501.

L3 ANSWER 25 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 99623-69-5 REGISTRY  
 CN Hydroperoxide, 2-[bis(2-chloroethyl)amino]tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-5-yl- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2H-1,3,2-Oxazaphosphorine, hydroperoxide deriv.  
 CN Hydroperoxide, 2-[bis(2-chloroethyl)amino]tetrahydro-2H-1,3,2-oxazaphosphorin-5-yl-, P-oxide  
 FS 3D CONCORD  
 MF C7 H15 Cl2 N2 O4 P  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER



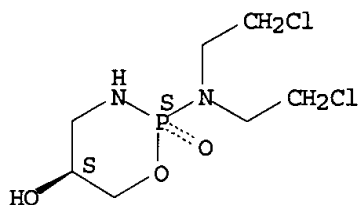
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1967 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

- REFERENCE 1: 125:220908 Preferred conformations of cyclophosphamide: a theoretical study. Denny, Brian J.; Schwalbe, Carl H. (Pharm. Sci. Inst., Aston Univ., Birmingham, B4 7ET, UK). Pharm. Sci., 2(1), 29-32 (English) 1996. CODEN: PHSCFB. ISSN: 1356-6881.
- REFERENCE 2: 109:47920 Changes in chemosensitivity of K 562 leukemia cells after induction of erythroid differentiation by hemin. Toffoli, Giuseppe; Lorico, Aurelio; Boiocchi, Mauro (Cent. Riferimento Oncol., Pordenone, 33081, Italy). Tumori, 74(1), 11-17 (English) 1988. CODEN: TUMOAB. ISSN: 0300-8916.
- REFERENCE 3: 104:28473 Scheduling effects of vinblastine containing 2-drug combinations on normal bone marrow and tumor progenitor cells. Hug, Verena; Spitzer, G.; Drewinko, B.; Johnston, D.; Thames, H.; Blumenschein, G. (Med. Breast Serv., Anderson Hosp., Houston, TX, 77030, USA). Proc. Int. Congr. Chemother., 13th, Volume 18, 291/39-291/42. Editor(s): Spitzzy, K. H.; Karrer, K. Verlag H. Egermann: Vienna, Austria. (English) 1983. CODEN: 53XPA8.

L3 ANSWER 26 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 85880-46-2 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-5-ol, 2-[bis(2-chloroethyl)amino]tetrahydro-,  
 2-oxide, (2S-trans)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C7 H15 Cl2 N2 O3 P  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

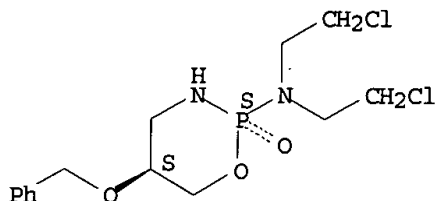
REFERENCE 1: 98:215800 Cyclophosphamide derivatives and their use. Eibl,  
 Hansjoerg; Kolar, Cenek; Seiler, Friedrich Robert; Sedlacek, Hans Harald  
 (Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V. , Fed.  
 Rep. Ger.; Behringwerke A.-G.). Eur. Pat. Appl. EP 72531 A1 19830223, 32  
 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE.  
 (German). CODEN: EPXXDW. APPLICATION: EP 1982-107270 19820811.  
 PRIORITY: DE 1981-3132221 19810814.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 72531	A1	19830223	EP 1982-107270	19820811
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
DE 3132221	A1	19830519	DE 1981-3132221	19810814
ES 514852	A1	19831101	ES 1982-514852	19820809
DK 8203647	A	19830215	DK 1982-3647	19820813
AU 8287170	A1	19830217	AU 1982-87170	19820813
JP 58041892	A2	19830311	JP 1982-139982	19820813
ZA 8205876	A	19830629	ZA 1982-5876	19820813
HU 27654	O	19831028	HU 1982-2614	19820813



L3 ANSWER 27 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 85880-45-1 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-5-(phenylmethoxy)-, 2-oxide, (2S-trans)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 DR 143396-65-0  
 MF C14 H21 Cl2 N2 O3 P  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

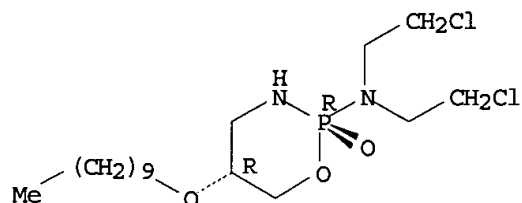
REFERENCE 1: 117:151065 Asymmetric synthesis of  
 2-(bis(2-chloroethyl)amino)-  
 5-benzyloxytetrahydro-2H-1,3,2-oxazaphosphorine-2-oxide. Chen, Ruyu;  
 Zhang, Ming (Inst. Elem. Org. Chem., Nankai Univ., Tianjin, 300071, Peop.  
 Rep. China). Gaodeng Xuexiao Huaxue Xuebao, 13(3), 352-4 (Chinese) 1992.  
 CODEN: KTHPDM. ISSN: 0251-0790.

REFERENCE 2: 98:215800 Cyclophosphamide derivatives and their use. Eibl,  
 Hansjoerg; Kolar, Cenek; Seiler, Friedrich Robert; Sedlacek, Hans Harald  
 (Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Fed.  
 Rep. Ger.; Behringwerke A.-G.). Eur. Pat. Appl. EP 72531 A1 19830223, 32  
 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE.  
 (German). CODEN: EPXXDW. APPLICATION: EP 1982-107270 19820811.  
 PRIORITY: DE 1981-3132221 19810814.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 72531	A1	19830223	EP 1982-107270	19820811
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
DE 3132221	A1	19830519	DE 1981-3132221	19810814
ES 514852	A1	19831101	ES 1982-514852	19820809
DK 8203647	A	19830215	DK 1982-3647	19820813
AU 8287170	A1	19830217	AU 1982-87170	19820813
JP 58041892	A2	19830311	JP 1982-139982	19820813
ZA 8205876	A	19830629	ZA 1982-5876	19820813
HU 27654	O	19831028	HU 1982-2614	19820813

L3 ANSWER 28 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 85820-97-9 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)-5-(decyloxy)tetrahydro-, 2-oxide, trans- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C17 H35 Cl2 N2 O3 P  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

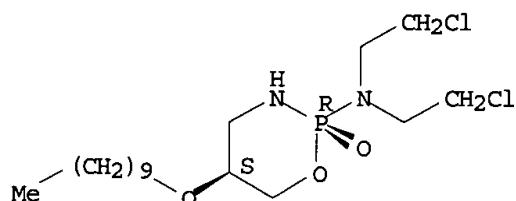
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 98:215800 Cyclophosphamide derivatives and their use. Eibl, Hansjoerg; Kolar, Cenek; Seiler, Friedrich Robert; Sedlacek, Hans Harald (Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Fed. Rep. Ger.; Behringwerke A.-G.). Eur. Pat. Appl. EP 72531 A1 19830223, 32 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 1982-107270 19820811. PRIORITY: DE 1981-3132221 19810814.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 72531	A1	19830223	EP 1982-107270	19820811
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
DE 3132221	A1	19830519	DE 1981-3132221	19810814
ES 514852	A1	19831101	ES 1982-514852	19820809
DK 8203647	A	19830215	DK 1982-3647	19820813
AU 8287170	A1	19830217	AU 1982-87170	19820813
JP 58041892	A2	19830311	JP 1982-139982	19820813
ZA 8205876	A	19830629	ZA 1982-5876	19820813
HU 27654	O	19831028	HU 1982-2614	19820813

L3 ANSWER 29 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 85820-96-8 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)-5-(decyloxy)tetrahydro-, 2-oxide, cis- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C17 H35 Cl2 N2 O3 P  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

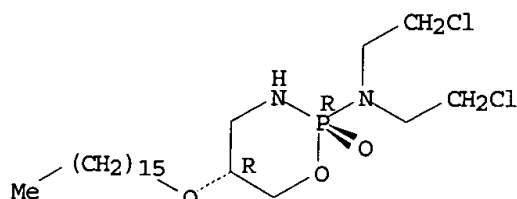
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 98:215800 Cyclophosphamide derivatives and their use. Eibl, Hansjoerg; Kolar, Cenek; Seiler, Friedrich Robert; Sedlacek, Hans Harald (Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Fed. Rep. Ger.; Behringwerke A.-G.). Eur. Pat. Appl. EP 72531 A1 19830223, 32 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 1982-107270 19820811. PRIORITY: DE 1981-3132221 19810814.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 72531	A1	19830223	EP 1982-107270	19820811
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
DE 3132221	A1	19830519	DE 1981-3132221	19810814
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ZA 8205876	A	19830629	ZA 1982-5876	19820813
HU 27654	O	19831028	HU 1982-2614	19820813

L3 ANSWER 30 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 85820-95-7 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)-5-(hexadecyloxy)tetrahydro-, 2-oxide, trans- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

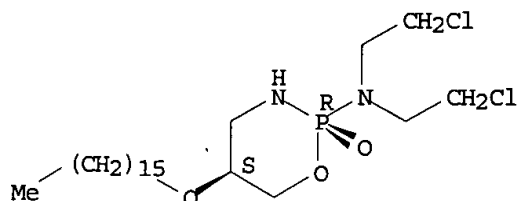
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 98:215800 Cyclophosphamide derivatives and their use. Eibl, Hansjoerg; Kolar, Cenek; Seiler, Friedrich Robert; Sedlacek, Hans Harald (Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Fed. Rep. Ger.; Behringwerke A.-G.). Eur. Pat. Appl. EP 72531 A1 19830223, 32 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 1982-107270 19820811. PRIORITY: DE 1981-3132221 19810814.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 72531	A1	19830223	EP 1982-107270	19820811
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
DE 3132221	A1	19830519	DE 1981-3132221	19810814
ES 514852	A1	19831101	ES 1982-514852	19820809
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AU 8287170	A1	19830217	AU 1982-87170	19820813
JP 58041892	A2	19830311	JP 1982-139982	19820813
ZA 8205876	A	19830629	ZA 1982-5876	19820813
HU 27654	O	19831028	HU 1982-2614	19820813

L3 ANSWER 31 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 85820-94-6 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)-5-(hexadecyloxy)tetrahydro-, 2-oxide, cis- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C23 H47 Cl2 N2 O3 P  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

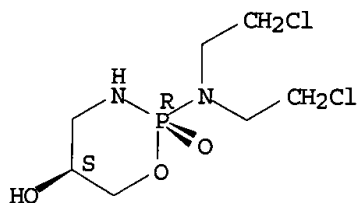
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 98:215800 Cyclophosphamide derivatives and their use. Eibl, Hansjoerg; Kolar, Cenek; Seiler, Friedrich Robert; Sedlacek, Hans Harald (Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Fed. Rep. Ger.; Behringwerke A.-G.). Eur. Pat. Appl. EP 72531 A1 19830223, 32 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 1982-107270 19820811. PRIORITY: DE 1981-3132221 19810814.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 72531	A1	19830223	EP 1982-107270	19820811
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
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ES 514852	A1	19831101	ES 1982-514852	19820809
DK 8203647	A	19830215	DK 1982-3647	19820813
AU 8287170	A1	19830217	AU 1982-87170	19820813
JP 58041892	A2	19830311	JP 1982-139982	19820813
ZA 8205876	A	19830629	ZA 1982-5876	19820813
HU 27654	O	19831028	HU 1982-2614	19820813

L3 ANSWER 32 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 85820-89-9 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-5-ol, 2-[bis(2-chloroethyl)amino]tetrahydro-,  
 2-oxide, (2R-cis)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C7 H15 Cl2 N2 O3 P  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

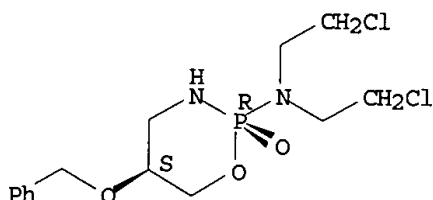
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 98:215800 Cyclophosphamide derivatives and their use. Eibl,  
 Hansjoerg; Kolar, Cenek; Seiler, Friedrich Robert; Sedlacek, Hans Harald  
 (Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Fed.  
 Rep. Ger.; Behringwerke A.-G.). Eur. Pat. Appl. EP 72531 A1 19830223, 32  
 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE.  
 (German). CODEN: EPXXDW. APPLICATION: EP 1982-107270 19820811.  
 PRIORITY: DE 1981-3132221 19810814.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 72531	A1	19830223	EP 1982-107270	19820811
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	ES 514852	A1	19831101	ES 1982-514852	19820809
	DK 8203647	A	19830215	DK 1982-3647	19820813
	AU 8287170	A1	19830217	AU 1982-87170	19820813
	JP 58041892	A2	19830311	JP 1982-139982	19820813
	ZA 8205876	A	19830629	ZA 1982-5876	19820813
	HU 27654	O	19831028	HU 1982-2614	19820813

L3 ANSWER 33 OF 33 REGISTRY COPYRIGHT 2002 ACS  
 RN 85820-88-8 REGISTRY  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-5-(phenylmethoxy)-, 2-oxide, (2R-cis)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 DR 143396-64-9  
 MF C14 H21 Cl2 N2 O3 P  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 117:151065 Asymmetric synthesis of  
 2-(bis(2-chloroethyl)amino)-  
 5-benzyloxytetrahydro-2H-1,3,2-oxazaphosphorine-2-oxide. Chen, Ruyu;  
 Zhang, Ming (Inst. Elem. Org. Chem., Nankai Univ., Tianjin, 300071, Peop.  
 Rep. China). Gaodeng Xuexiao Huaxue Xuebao, 13(3), 352-4 (Chinese) 1992.  
 CODEN: KTHPDM. ISSN: 0251-0790.

REFERENCE 2: 98:215800 Cyclophosphamide derivatives and their use. Eibl,  
 Hansjoerg; Kolar, Cenek; Seiler, Friedrich Robert; Sedlacek, Hans Harald  
 (Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Fed.  
 Rep. Ger.; Behringwerke A.-G.). Eur. Pat. Appl. EP 72531 A1 19830223, 32  
 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE.  
 (German). CODEN: EPXXDW. APPLICATION: EP 1982-107270 19820811.  
 PRIORITY: DE 1981-3132221 19810814.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 72531	A1	19830223	EP 1982-107270	19820811
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
DE 3132221	A1	19830519	DE 1981-3132221	19810814
ES 514852	A1	19831101	ES 1982-514852	19820809
DK 8203647	A	19830215	DK 1982-3647	19820813
AU 8287170	A1	19830217	AU 1982-87170	19820813
JP 58041892	A2	19830311	JP 1982-139982	19820813
ZA 8205876	A	19830629	ZA 1982-5876	19820813
HU 27654	O	19831028	HU 1982-2614	19820813

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:.

COST IN U.S. DOLLARS

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ENTRY

TOTAL  
SESSION

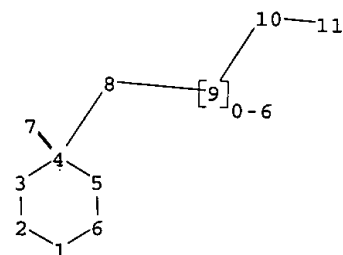
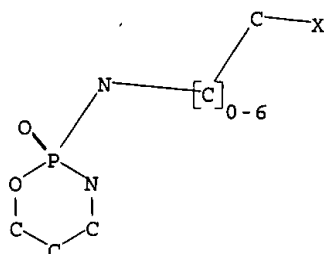
FULL ESTIMATED COST

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223.80

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chain nodes :

7 8 9 10 11

ring nodes :

1 2 3 4 5 6

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4-7 4-8 8-9 9-10 10-11

ring bonds :

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exact/norm bonds :

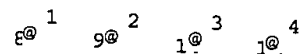
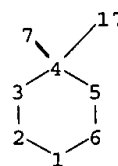
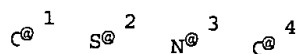
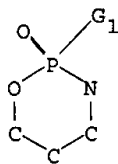
1-2 1-6 2-3 3-4 4-5 4-7 4-8 5-6 8-9

exact bonds :

9-10 10-11

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS



chain nodes :

7 8 9 10 17

ring nodes :

1 2 3 4 5 6

ring/chain nodes :

11

chain bonds :

4-7 4-17

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 4-7 4-17 5-6

G1: [\*1], [\*2], [\*3], [\*4]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 17:CLASS

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal611txm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

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NEWS 2 Dec 17 The CA Lexicon available in the CAPLUS and CA files  
NEWS 3 Feb 06 Engineering Information Encompass files have new names  
NEWS 4 Feb 16 TOXLINE no longer being updated  
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure  
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA  
NEWS 7 May 07 DGENE Reload  
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL  
NEWS 9 JUL 13 New SDI alert frequency now available in Derwent's  
DWPI and DPCI

NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,  
CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),  
AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001  
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

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FULL ESTIMATED COST

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0.15

FILE 'REGISTRY' ENTERED AT 16:42:15 ON 16 AUG 2001

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DICTIONARY FILE UPDATES: 15 AUG 2001 HIGHEST RN 351490-25-0

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conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT  
for details.

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L1 STRUCTURE UPLOADED

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SAMPLE SEARCH INITIATED 16:42:38 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 126 TO ITERATE

100.0% PROCESSED 126 ITERATIONS 50 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 1847 TO 3193  
PROJECTED ANSWERS: 1401 TO 2599

L2 50 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 16:42:48 FILE 'REGISTRY'  
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100.0% PROCESSED 2404 ITERATIONS 1955 ANSWERS  
SEARCH TIME: 00.00.02

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L4 STRUCTURE UPLOADED

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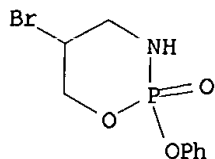
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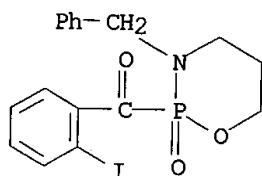
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L6 998 ANSWERS REGISTRY COPYRIGHT 2001 ACS  
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MF C9 H11 Br N O3 P

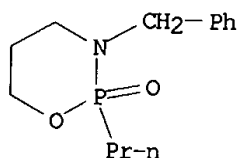


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L6 998 ANSWERS REGISTRY COPYRIGHT 2001 ACS  
 IN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-2-(2-iodobenzoyl)-3-(phenylmethyl)-,  
 2-oxide (9CI)  
 MF C17 H17 I N O3 P



L6 998 ANSWERS REGISTRY COPYRIGHT 2001 ACS  
 IN 2H-1,3,2-Oxazaphosphorine, tetrahydro-3-(phenylmethyl)-2-propyl-, 2-oxide  
 (9CI)  
 MF C13 H20 N O2 P



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
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FILE 'CAPLUS' ENTERED AT 16:47:40 ON 16 AUG 2001  
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FILE COVERS 1947 - 16 Aug 2001 VOL 135 ISS 8  
FILE LAST UPDATED: 15 Aug 2001 (20010815/ED)

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This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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L7 370 L6

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3248925 P/DT

L8 45 L7 AND P/DT

=> d 1-45 cbib pi hitstr

L8 ANSWER 1 OF 45 CAPLUS COPYRIGHT 2001 ACS

2001:460146 Document No. 135:33567 Method of obtaining racemic and chiral derivatives of 2-thio-1,3,2-oxazaphosphorinane. Mikolajczyk, Marian; Luczak, Jerzy (Polska Akademia Nauk, Centrum Badan Molekularnych i Makromolekularnych, Pol.). Pol. PL 178668 B1 20000531, 5 pp. (Polish). CODEN: POXXA7. APPLICATION: PL 1995-308686 19950519.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 178668	B1	20000531	PL 1995-308686	19950519

IT 343581-46-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and ion exchange of)

RN 343581-46-4 CAPLUS

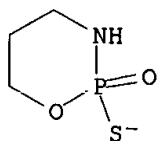
CN Methanaminium, N,N,N-trimethyl-, salt with (+)-tetrahydro-2-hydroxy-2H-1,3,2-oxazaphosphorine 2-sulfide (1:1) (9CI) (CA INDEX NAME)

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CRN 343581-45-3

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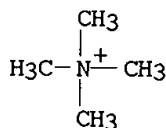
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CM 2

CRN 51-92-3

CMF C4 H12 N



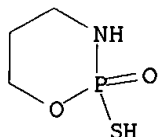
IT 343581-47-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 343581-47-5 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, tetrahydro-2-mercapto-, 2-oxide, monosodium salt, (+)-(9CI) (CA INDEX NAME)

Rotation (+).



● Na

L8 ANSWER 2 OF 45 CAPLUS COPYRIGHT 2001 ACS

2000:628142 Document No. 133:213194 Novel phosphorus-containing prodrugs.  
Erion, Mark D.; Reddy, K. Raja; Boyer, Serge H. (Metabasis Therapeutics, Inc., USA). PCT Int. Appl. WO 2000052015 A2 20000908, 202 pp.

# DESIGNATED

STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English).

CODEN: PIXXD2. APPLICATION: WO 2000-US5672 20000303. PRIORITY: US 1999-PV123013 19990305; US 1999-PV153127 19990908.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2000052015	A2	20000908	WO 2000-US5672	20000303
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WO 2000052015 A3 20010215

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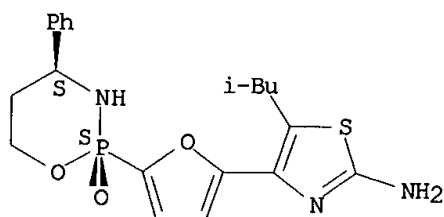
IT 261370-70-1P 290362-15-1P 290362-16-2P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(phosphoramidate prodrugs)

RN 261370-70-1 CAPLUS

CN 2-Thiazolamine, 5-(2-methylpropyl)-4-[(2R,4R)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

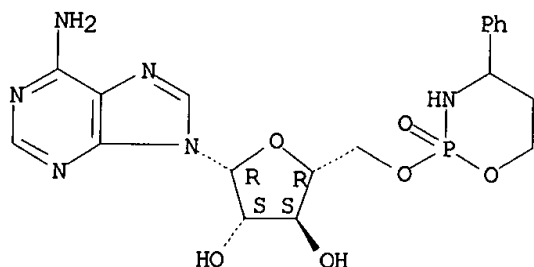


548/112

RN 290362-15-1 CAPLUS

CN 9H-Purin-6-amine, 9-[5-O-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-.beta.-D-arabinofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

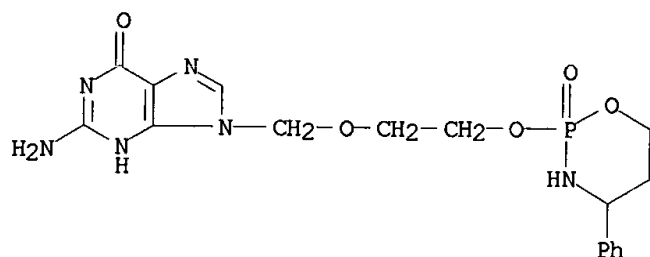


544/244

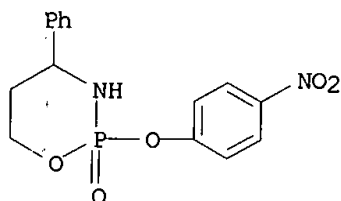
RN 290362-16-2 CAPLUS

CN 6H-Purin-6-one, 2-amino-1,9-dihydro-9-[[2-[(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)oxy]ethoxy)methyl]- (9CI) (CA INDEX NAME)

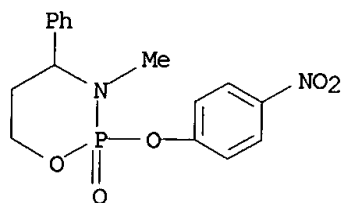




IT **290362-20-8P 290362-25-3P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (phosphoramidate prodrugs)  
 RN 290362-20-8 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine, tetrahydro-2-(4-nitrophenoxy)-4-phenyl-,  
 2-oxide (9CI) (CA INDEX NAME)

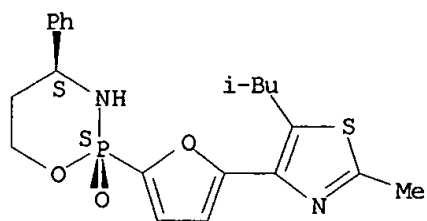


RN 290362-25-3 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-3-methyl-2-(4-nitrophenoxy)-4-phenyl-  
 , 2-oxide (9CI) (CA INDEX NAME)



IT **261370-68-7P 261370-69-8P 261370-71-2P**  
**261370-73-4P 261370-74-5P 261370-76-7P**  
**280781-83-1P 290362-12-8P 290362-13-9P**  
**290362-14-0P 290362-17-3P 290362-18-4P**  
**290362-19-5P**  
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (phosphoramidate prodrugs)  
 RN 261370-68-7 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-  
 thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide, (2R,4R)-rel- (9CI) (CA INDEX  
 NAME)

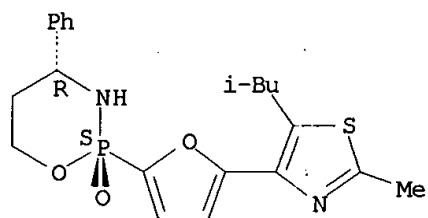
Relative stereochemistry.



RN 261370-69-8 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, 2-oxide, (2R,4S)-rel- (9CI) (CA INDEX NAME)

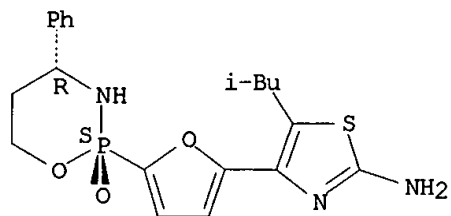
Relative stereochemistry.



RN 261370-71-2 CAPLUS

CN 2-Thiazolamine, 5-(2-methylpropyl)-4-[5-[(2R,4S)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

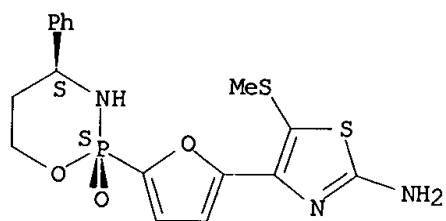
Relative stereochemistry.



RN 261370-73-4 CAPLUS

CN 2-Thiazolamine, 5-(methylthio)-4-[5-[(2R,4R)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

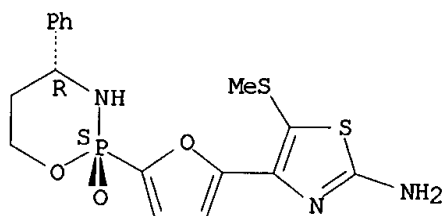
Relative stereochemistry.



RN 261370-74-5 CAPLUS

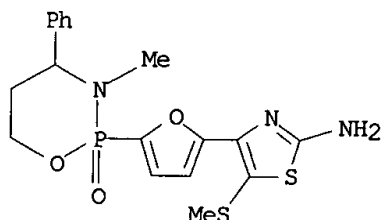
CN 2-Thiazolamine, 5-(methylthio)-4-[5-[(2R,4S)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



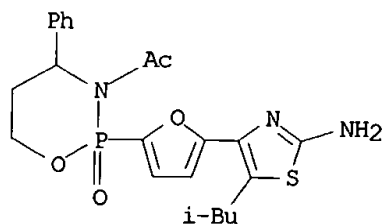
RN 261370-76-7 CAPLUS

CN 2-Thiazolamine, 5-(methylthio)-4-[5-(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]- (9CI) (CA INDEX NAME)



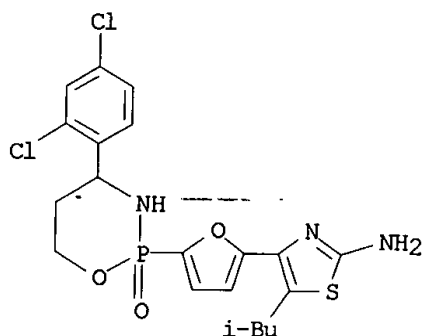
RN 280781-83-1 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, 3-acetyl-2-[5-[2-amino-5-(2-methylpropyl)-4-thiazolyl]-2-furanyl]tetrahydro-4-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



RN 290362-12-8 CAPLUS

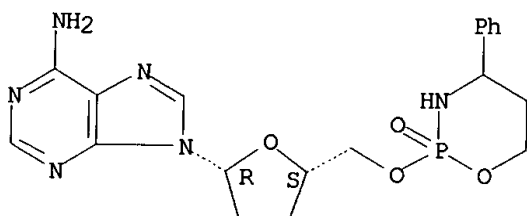
CN 2-Thiazolamine, 4-[5-[4-(2,4-dichlorophenyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-5-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 290362-13-9 CAPLUS

CN Adenosine, 2',3'-dideoxy-5'-O-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)- (9CI) (CA INDEX NAME)

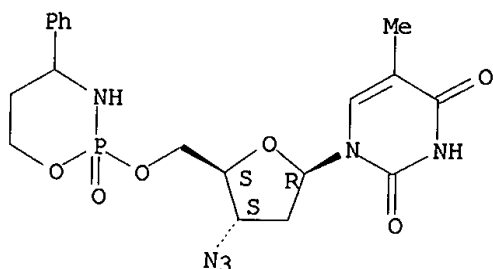
Absolute stereochemistry.



RN 290362-14-0 CAPLUS

CN Thymidine, 3'-azido-3'-deoxy-5'-O-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

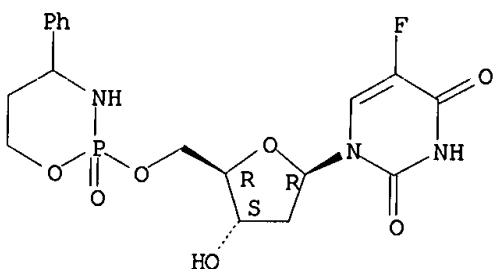


544/243

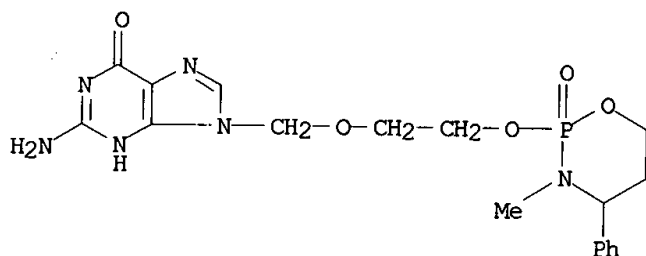
RN 290362-17-3 CAPLUS

CN Uridine, 2'-deoxy-5'-fluoro-5'-O-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

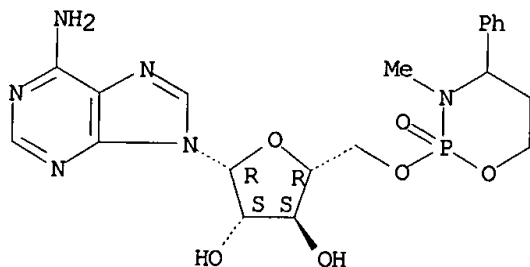


RN 290362-18-4 CAPLUS  
 CN 6H-Purin-6-one,  
 2-amino-1,9-dihydro-9-[[2-[(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)oxy]ethoxy]methyl]- (9CI) (CA INDEX NAME)



RN 290362-19-5 CAPLUS  
 CN 9H-Purin-6-amine, 9-[5-O-(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-.beta.-D-arabinofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 3 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 2000:456867 Document No. 133:84284 A combination of fructose-1,6-bisphosphatase (FBPase) inhibitors and insulin sensitizers for the treatment of diabetes. Erion, Mark D.; Vanpoelje, Paul (Metabasis Therapeutics, Inc., USA). PCT Int. Appl. WO 2000038666 A2 20000706, 306 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB,

GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English).  
 CODEN: PIXXD2. APPLICATION: WO 1999-US30713 19991222. PRIORITY: US  
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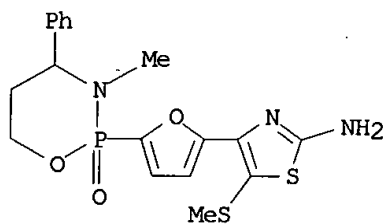
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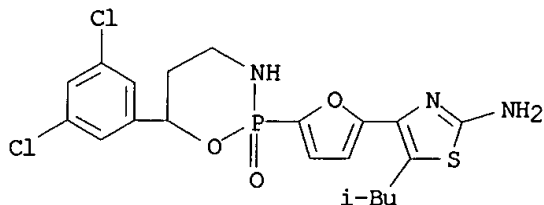
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IT 261370-76-7P 261370-79-0P 261370-80-3P  
 280781-78-4DP, isomers 280781-79-5DP, isomers  
 280781-81-9DP, isomers 280781-83-1P  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (fructose-1,6-bisphosphatase inhibitor-insulin sensitizer combination for diabetes treatment, and inhibitor prepn.)

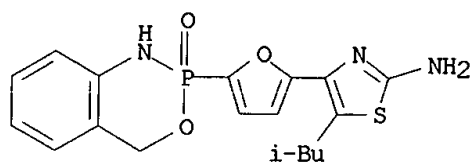
RN 261370-76-7 CAPLUS  
 CN 2-Thiazolamine,  
 5-(methylthio)-4-[5-(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]- (9CI) (CA INDEX NAME)



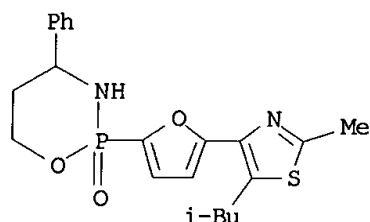
RN 261370-79-0 CAPLUS  
 CN 2-Thiazolamine, 4-[5-[6-(3,5-dichlorophenyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-5-(2-methylpropyl)- (9CI) (CA INDEX NAME)



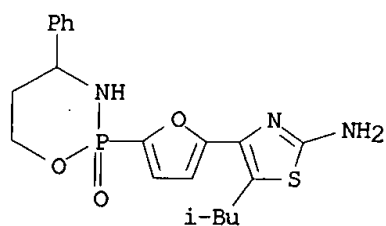
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 CN 2-Thiazolamine, 4-[5-(1,4-dihydro-2-oxido-2H-3,1,2-benzoxazaphosphorin-2-yl)-2-furanyl]-5-(2-methylpropyl)- (9CI) (CA INDEX NAME)



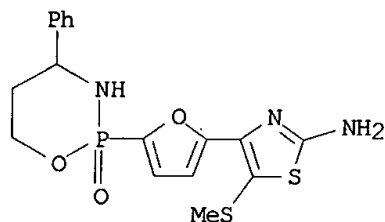
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 CN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-  
 thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



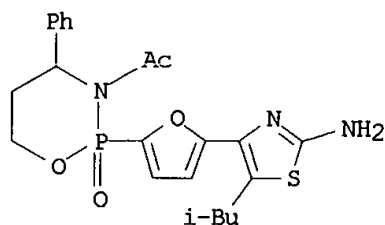
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 CN 2-Thiazolamine, 5-(2-methylpropyl)-4-[5-(tetrahydro-2-oxido-4-phenyl-2H-  
 1,3,2-oxazaphosphorin-2-yl)-2-furanyl]- (9CI) (CA INDEX NAME)



RN 280781-81-9 CAPLUS  
 CN 2-Thiazolamine,  
 5-(methylthio)-4-[5-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-  
 oxazaphosphorin-2-yl)-2-furanyl]- (9CI) (CA INDEX NAME)



RN 280781-83-1 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine, 3-acetyl-2-[5-[2-amino-5-(2-methylpropyl)-4-  
 thiazolyl]-2-furanyl]tetrahydro-4-phenyl-, 2-oxide (9CI) (CA INDEX NAME)

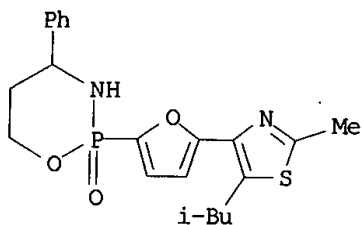


L8 ANSWER 4 OF 45 CAPLUS COPYRIGHT 2001 ACS

2000:175817 Document No. 132:222529 Preparation of heteroaromatic phosphonates as fructose 1,6-bisphosphatase inhibitors. Dang, Qun; Kasibhatla, Srinivas Rao; Reddy, K. Raja; Erion, Mark D.; Reddy, M. Rami; Agarwal, Atul (Metabasis Therapeutics, Inc., USA). PCT Int. Appl. WO 2000014095 A1 20000316, 338 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-US20346 19990903. PRIORITY: US 1998-135504 19980909; US 1998-111077 19981207.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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NO 2001001174	A	20010509	NO 2001-1174	20010307
IT 261370-67-6P			261370-68-7P	261370-69-8P
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261370-73-4P			261370-74-5P	261370-75-6P
261370-76-7P			261370-77-8P	261370-79-0P
261370-80-3P				
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (target compd.; prepn. of heteroarom. phosphonates as fructose 1,6-bisphosphatase inhibitors via high throughput and std. synthetic methods)				
RN 261370-67-6	CAPLUS			
CN 2H-1,3,2-Oxazaphosphorine,				
tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide, monohydrochloride (9CI) (CA INDEX NAME)				

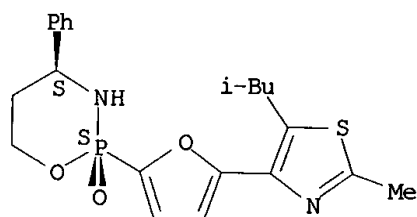




● HCl

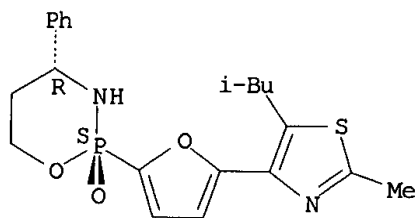
RN 261370-68-7 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-  
 thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide, (2R,4R)-rel- (9CI) (CA INDEX  
 NAME)

Relative stereochemistry.



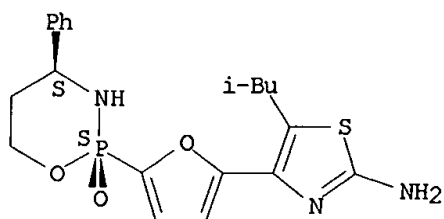
RN 261370-69-8 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-  
 thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide, (2R,4S)-rel- (9CI) (CA INDEX  
 NAME)

Relative stereochemistry.



RN 261370-70-1 CAPLUS  
 CN 2-Thiazolamine, 5-(2-methylpropyl)-4-[5-[(2R,4R)-tetrahydro-2-oxido-4-  
 phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX  
 NAME)

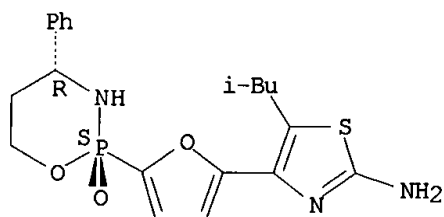
Relative stereochemistry.



RN 261370-71-2 CAPLUS

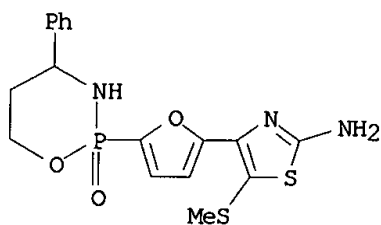
CN 2-Thiazolamine, 5-(2-methylpropyl)-4-[5-[(2R,4S)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 261370-72-3 CAPLUS

CN 2-Thiazolamine, 5-(methylthio)-4-[5-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]-, monohydrochloride (9CI) (CA INDEX NAME)

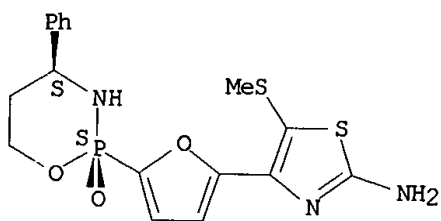


● HCl

RN 261370-73-4 CAPLUS

CN 2-Thiazolamine, 5-(methylthio)-4-[5-[(2R,4R)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

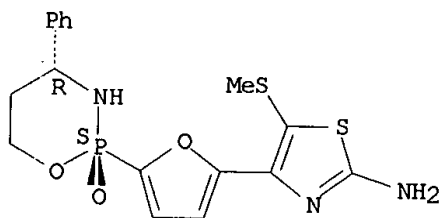
Relative stereochemistry.



RN 261370-74-5 CAPLUS

CN 2-Thiazolamine; 5-(methylthio)-4-[5-[(2R,4S)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

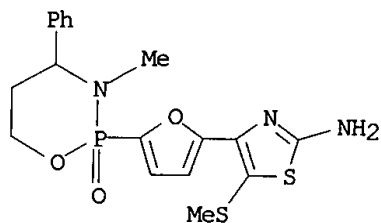
Relative stereochemistry.



RN 261370-75-6 CAPLUS

CN 2-Thiazolamine,

5-(methylthio)-4-[5-(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]-, monohydrochloride (9CI) (CA INDEX NAME)

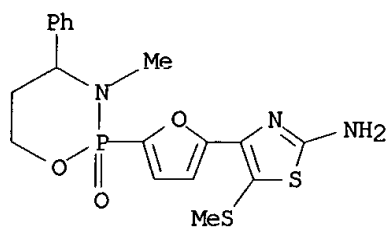


● HCl

RN 261370-76-7 CAPLUS

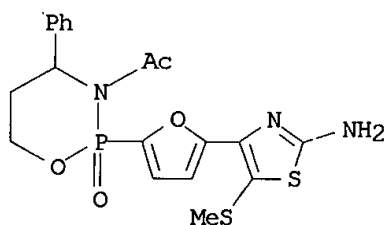
CN 2-Thiazolamine,

5-(methylthio)-4-[5-(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]- (9CI) (CA INDEX NAME)



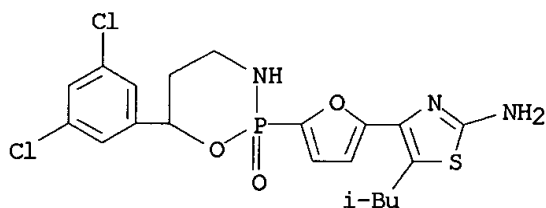
RN 261370-77-8 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, 3-acetyl-2-[5-[2-amino-5-(methylthio)-4-thiazolyl]-2-furanyl]tetrahydro-4-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



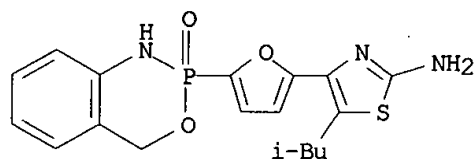
RN 261370-79-0 CAPLUS

CN 2-Thiazolamine, 4-[5-[6-(3,5-dichlorophenyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-5-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 261370-80-3 CAPLUS

CN 2-Thiazolamine, 4-[5-(1,4-dihydro-2-oxido-2H-3,1,2-benzoxazaphosphorin-2-yl)-2-furanyl]-5-(2-methylpropyl)- (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 45 CAPLUS COPYRIGHT 2001 ACS

1999:334338 Document No. 130:320832 Antineoplastic pharmaceutical agent.  
Stec, Wojciech J.; Radzikowski, Czeslaw; Szelejewski, Wieslaw; Kinas,  
Ryszard; Misiura, Konrad; Gryniewicz, Grzegorz; Kusmierczyk, Halina;

Kutner, Andrzej; Pilichowska, Slawomira (Instytut Farmaceutyczny, Pol.; PAN-Centrum Badan Molekularnych i Makromolekularnych; PAN-Instytut Immunologii i Terapii Doswiadczalnej). Pol. PL 175310 B1 19981231, 12

pp.

(Polish). CODEN: POXXA7. APPLICATION: PL 1994-303316 19940504.

PATENT NO. KIND DATE APPLICATION NO. DATE

PI PL 175310 B1 19981231 PL 1994-303316 19940504

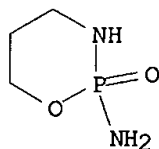
IT 5638-55-1D, 2H-1,3,2-Oxazaphosphorin-2-amine tetrahydro 2-oxide, derivs. 105217-07-0D, 2H-1,3,2-Oxazaphosphorin-2-amine, tetrahydro-, 2-oxide, (-)-, derivs.

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antitumor agents contg. 1,3,2-oxazaphosphorin-2-amine derivs.)

RN 5638-55-1 CAPLUS

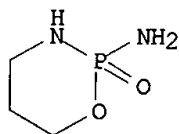
CN 2H-1,3,2-Oxazaphosphorin-2-amine, tetrahydro-, 2-oxide (9CI) (CA INDEX NAME)



RN 105217-07-0 CAPLUS

CN 2H-1,3,2-Oxazaphosphorin-2-amine, tetrahydro-, 2-oxide, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



L8 ANSWER 6 OF 45 CAPLUS COPYRIGHT 2001 ACS

1999:271360 Document No. 130:282311 Preparation of macrolide 8a-azalide erythromycins as bactericides. Blizzard, Timothy A.; Hammond, Milton L.; Santorelli, Gina M.; Morgan, Jerry D., II (Merck & Co., Inc., USA). PCT Int. Appl. WO 9919331 A1 19990422, 55 pp. DESIGNATED STATES: W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-US21594 19981013. PRIORITY: US 1997-62180 19971016; GB 1998-6417 19980325.

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9919331 A1 19990422 WO 1998-US21594 19981013

W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

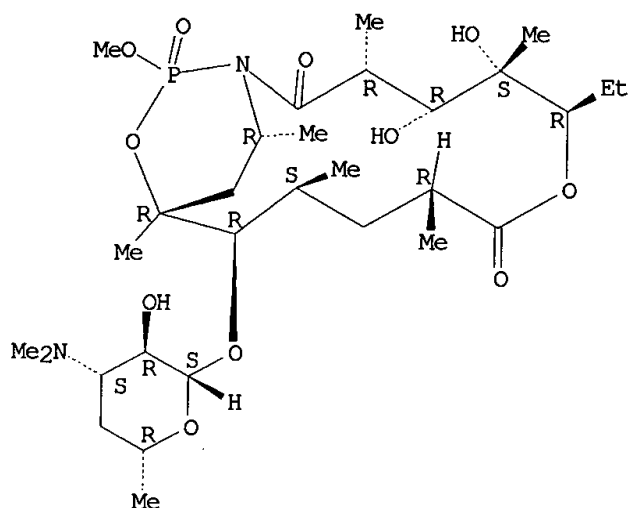
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,

FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,  
 CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 AU 9910825 A1 19990503 AU 1999-10825 19981013

IT **222637-39-0P 222637-40-3P**  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of macrolide 8a-azalide erythromycins as bactericides)

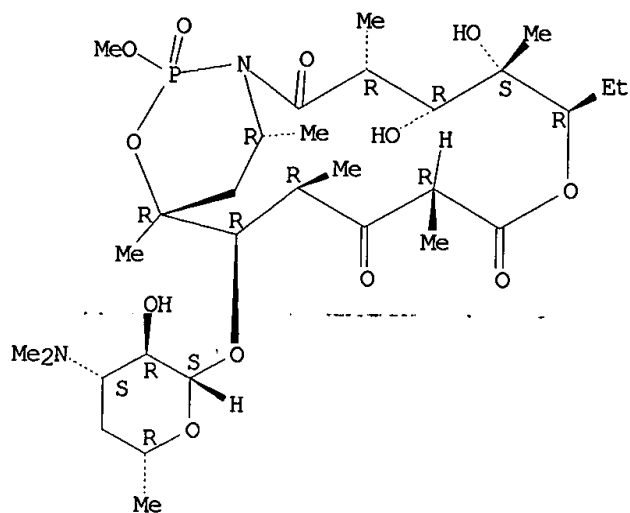
RN 222637-39-0 CAPLUS  
 CN 7,14-Dioxa-1-aza-15-phosphabicyclo[11.2.2]heptadecane-2,8-dione, 6-ethyl-4,5-dihydroxy-15-methoxy-3,5,9,11,13,16-hexamethyl-12-[[3,4,6-trideoxy-3-(dimethylamino)-.beta.-D-xylo-hexopyranosyl]oxy]-, 15-oxide, (3R,4R,5S,6R,9R,11S,12R,13R,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 222637-40-3 CAPLUS  
 CN 7,14-Dioxa-1-aza-15-phosphabicyclo[11.2.2]heptadecane-2,8,10-trione, 6-ethyl-4,5-dihydroxy-15-methoxy-3,5,9,11,13,16-hexamethyl-12-[[3,4,6-trideoxy-3-(dimethylamino)-.beta.-D-xylo-hexopyranosyl]oxy]-, 15-oxide, (3R,4R,5S,6R,9R,11R,12R,13R,16R)- (9CI) (CA INDEX NAME)

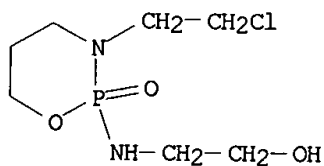
Absolute stereochemistry.



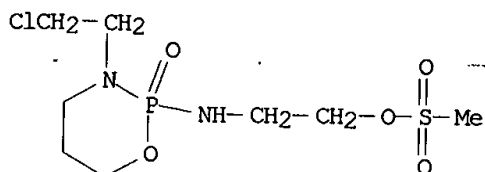
L8 ANSWER 7 OF 45 CAPLUS COPYRIGHT 2001 ACS

1999:81719 Document No. 130:125221 Method for preparation of oxazaphosphorin-2-amines. Niemeyer, Ulf; Niegel, Harald; Kutscher, Bernhard; Neda, Ion (ASTA MEDICA A.-G., Germany). Ger. DE 19739159 C1 19990128, 8 pp. (German). CODEN: GWXXAW. APPLICATION: DE 1997-19739159 19970906.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19739159	C1	19990128	DE 1997-19739159	19970906
	WO 9912942	A1	19990318	WO 1998-EP5170	19980814
	W: BR, CA, CN, HU, IL, JP, MX, PL				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1012152	A1	20000628	EP 1998-945245	19980814
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	ZA 9807741	A	19981008	ZA 1998-7741	19980826
	US 6187941	B1	20010213	US 1998-149099	19980908
IT	<b>37753-09-6P</b> , Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-				
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. of oxazaphosphorinamines by cyclization of chloroethylamine, hydroxypropylamine and phosphoryl chloride)				
RN	37753-09-6 CAPLUS				
CN	Ethanol,				
	2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)				



IT **37753-10-9P**, Sufosfamide  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of oxazaphosphorinamines by cyclization of chloroethylamine,  
 hydroxypropylamine and phosphoryl chloride)  
 RN 37753-10-9 CAPLUS  
 CN Ethanol,  
 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-  
 2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



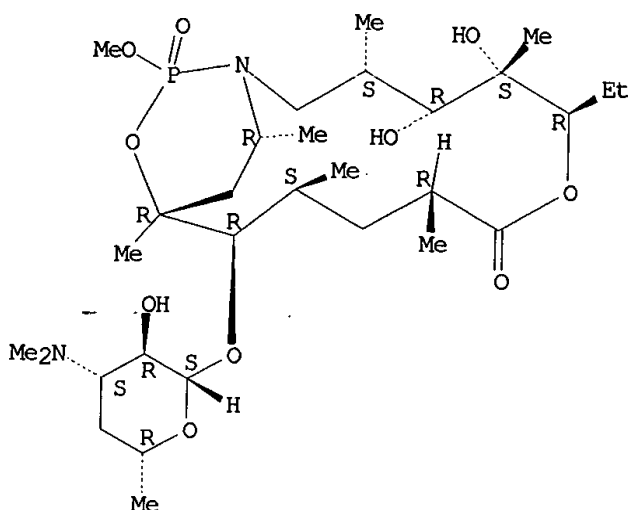
L8 ANSWER 8 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1999:27819 Document No. 130:81790 Preparation of 8a-azalide erythromycin  
 analogs as bactericides. Blizzard, Timothy A.; Waddell, Sherman T.;  
 Santorelli, Gina M.; Morgan, Jerry D. II; Hammond, Milton L.; Heck, James  
 V. (Merck & Co., Inc., USA). PCT Int. Appl. WO 9858917 A1 19981230, 63  
 pp. DESIGNATED STATES: W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN,  
 CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV,  
 MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT,  
 UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF,  
 BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU,  
 MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.  
 APPLICATION: WO 1998-US12574 19980617. PRIORITY: US 1997-50401 19970620;  
 GB 1998-233 19980106.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9858917	A1	19981230	WO 1998-US12574	19980617
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9881475	A1	19990104	AU 1998-81475	19980617

IT **218941-64-1P 218941-65-2P**  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic  
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)  
 (prepn. of 8a-azalide erythromycin analogs as bactericides)  
 RN 218941-64-1 CAPLUS  
 CN 7,14-Dioxa-1-aza-15-phosphabicyclo[11.2.2]heptadecan-8-one,  
 6-ethyl-4,5-dihydroxy-15-methoxy-3,5,9,11,13,16-hexamethyl-12-[[3,4,6-  
 trideoxy-3-(dimethylamino)-.beta.-D-xylo-hexopyranosyl]oxy]-, 15-oxide,  
 (3S,4R,5S,6R,9R,11S,12R,13R,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

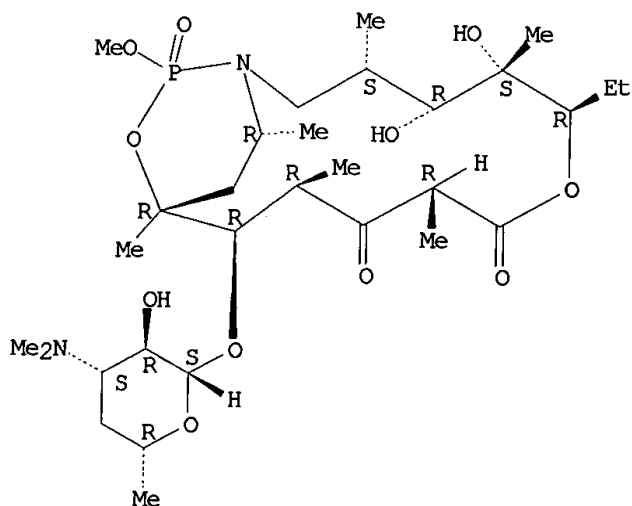




RN 218941-65-2 CAPLUS

CN 7,14-Dioxo-1-aza-15-phosphabicyclo[11.2.2]heptadecane-8,10-dione, 6-ethyl-4,5-dihydroxy-15-methoxy-3,5,9,11,13,16-hexamethyl-12-[[3,4,6-trideoxy-3-(dimethylamino)-.beta.-D-xylo-hexopyranosyl]oxy]-, 15-oxide, (3S,4R,5S,6R,9R,11R,12R,13R,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

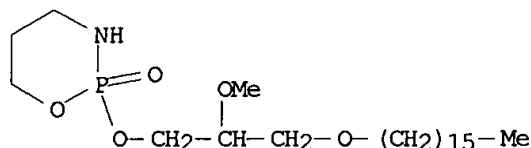


L8 ANSWER 9 OF 45 CAPLUS COPYRIGHT 2001 ACS

1998:169488 Document No. 128:257656 Preparation of amphiphilic glycerols or ethyleneglycols as phosphatidylcholine synthesis inhibitors and antitumors. Attard, George Simon; McGuigan, Christopher; Riley, Patrick Anthony (University of Southampton, UK; Attard, George Simon; McGuigan, Christopher; Riley, Patrick Anthony). PCT Int. Appl. WO 9809668 A2 19980312, 57 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,

MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1997-GB2410 19970908. PRIORITY: GB 1996-18634 19960906. PATENT NO. KIND DATE APPLICATION NO. DATE

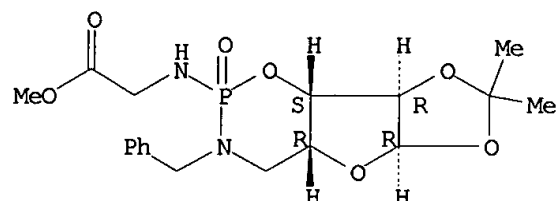
PI WO 9809668 A2 19980312 WO 1997-GB2410 19970908  
 WO 9809668 A3 19980625  
 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  
 AU 9741285 A1 19980326 AU 1997-41285 19970908  
 IT **204924-50-5P**  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of amphiphilic glycerols or ethyleneglycols as phosphatidylcholines synthesis inhibitors and antitumors)  
 RN 204924-50-5 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine,  
 2-[3-(hexadecyloxy)-2-methoxypropoxy]tetrahydro-  
 , 2-oxide (9CI) (CA INDEX NAME)



L8 ANSWER 10 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1997:617451 Document No. 127:262992 Preparation of oxyazaphospholine D-xylofuranose derivatives having herbicidal activity. Yamashita, Koji; Oshikawa, Tatsuo; Usui, Tatsuya; Seo, Kuniaki (Yamashita, Koji, Japan; Nippon Soda Co., Ltd.). Jpn. Kokai Tokkyo Koho JP 09241284 A2 19970916 Heisei, 10 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-80882 19960308.

PATENT NO. KIND DATE APPLICATION NO. DATE  
 PI JP 09241284 A2 19970916 JP 1996-80882 19960308  
 IT **196201-85-1P 196201-86-2P 196201-87-3P 196201-88-4P**  
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of oxyazaphospholine D-xylofuranose derivs. having herbicidal activity)  
 RN 196201-85-1 CAPLUS  
 CN Glycine, N-[(4aR,5aR,8aR,8bS)-hexahydro-7,7-dimethyl-2-oxido-3-(phenylmethyl)-2H-[1,3]dioxolo[4,5]furo[2,3-e]-1,3,2-oxazaphosphorin-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

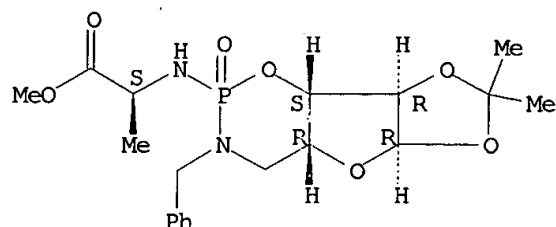


RN 196201-86-2 CAPLUS

CN L-Alanine, N-[(4aR,5aR,8aR,8bS)-hexahydro-7,7-dimethyl-2-oxido-3-

(phenylmethyl)-2H-[1,3]dioxolo[4,5]furo[2,3-e]-1,3,2-oxazaphosphorin-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

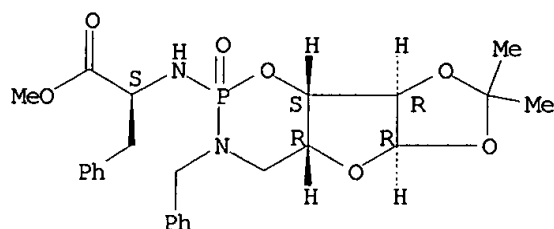


RN 196201-87-3 CAPLUS

CN L-Phenylalanine, N-[(4aR,5aR,8aR,8bS)-hexahydro-7,7-dimethyl-2-oxido-3-

(phenylmethyl)-2H-[1,3]dioxolo[4,5]furo[2,3-e]-1,3,2-oxazaphosphorin-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

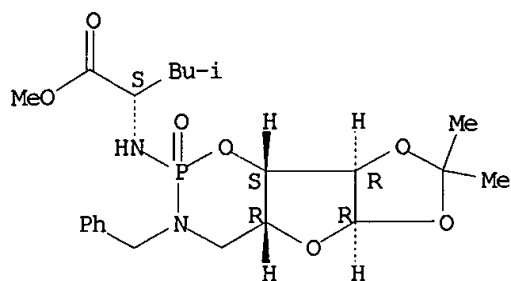


RN 196201-88-4 CAPLUS

CN L-Leucine, N-[(4aR,5aR,8aR,8bS)-hexahydro-7,7-dimethyl-2-oxido-3-

(phenylmethyl)-2H-[1,3]dioxolo[4,5]furo[2,3-e]-1,3,2-oxazaphosphorin-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

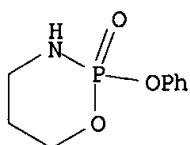
Absolute stereochemistry.



L8 ANSWER 11 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1996:748439 Document No. 126:19030 Preparation of O-aryl ethers of  
 2-hydroxy-2-thio- or -2-oxo-1,3,2-oxazaphosphorinane. Mastryukova, T.  
 A.;

Mndzhoyan, Z. O.; Shipov, A. E.; Roslavl'tseva, S. A.; Golitsyna, V. V.;  
 Ter-Zakharyan, Yu. Z.; Oganyan, Sh. G.; Kagan, Yu. S.; Ershova, E. A.;  
 Kabachnik, M. I. (Institut Elementoorganicheskikh Soedinenij  
 Im. A. N. Nesmeyanova, USSR). U.S.S.R. SU 1019823 A1 19960310 From:  
 Izobreteniya 1996, (7), 279. (Russian). CODEN: URXXAF. APPLICATION: SU  
 1981-3295597 19810603.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	SU 1019823	A1	19960310	SU 1981-3295597	19810603
IT	<b>50742-52-4P</b>				
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of aryloxy(thio)- or -(oxo)oxazaphosphorinane)				
RN	50742-52-4	CAPLUS			
CN	2H-1,3,2-Oxazaphosphorine, tetrahydro-2-phenoxy-, 2-oxide (6CI, 9CI) (CA INDEX NAME)				

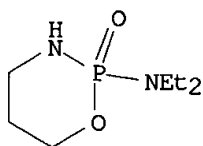


L8 ANSWER 12 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1996:365550 Document No. 125:26247 A method of selectively destroying  
 neoplastic cells using chemotherapeutic agent and viral vector to express  
 cytochrome P 450 gene. Chiocca, E. Antonio; Waxman, David J.; Wei, Ming  
 X.; Breakefield, Xandra O.; Chen, Ling (General Hospital Corporation,  
 USA;

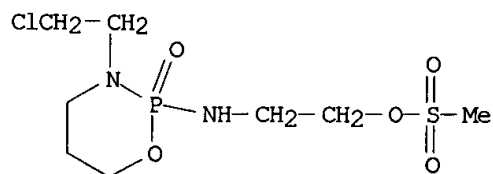
Boston University; Dana Farber Cancer Institute). PCT Int. Appl. WO  
 9604789 A1 19960222, 148 pp. DESIGNATED STATES: W: CA, JP; RW: AT, BE,  
 CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (English).  
 CODEN: PIXXD2. APPLICATION: WO 1995-US10365 19950815. PRIORITY: US  
 1994-291500 19940817; US 1994-330523 19941028.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9604789	A1	19960222	WO 1995-US10365	19950815
	W: CA, JP RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

US 5688773 A 19971118 US 1994-330523 19941028  
 EP 776161 A1 19970604 EP 1995-929543 19950815  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,  
 SE JP 10504308 T2 19980428 JP 1995-507577 19950815  
 IT **53859-37-3**  
 RL: BAC (Biological activity or effector, except adverse); BIOL  
 (Biological study)  
 (cytochrome P 450 gene-expressing vector and chemotherapeutic agent  
 for selectively destroying neoplastic cells)  
 RN 53859-37-3 CAPLUS  
 CN 2H=1,3,2-Oxazaphosphorin-2-amine, N,N-diethyltetrahydro-, 2-oxide (9CI)  
 (CA INDEX NAME)



L8 ANSWER 13 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1993:678769 Document No. 119:278769 Manufacture of multilayered  
 controlled-release transdermal patches. Wick, John; Weimann, Ludwig J.;  
 Pollock, Wayne C. (Mli Acquisition Corp. II, USA). Eur. Pat. Appl. EP  
 563507 A1 19931006, 35 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK,  
 ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE. (English). CODEN: EPXXDW.  
 APPLICATION: EP 1992-850190 19920813. PRIORITY: US 1992-861534 19920401.  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI EP 563507 A1 19931006 EP 1992-850190 19920813  
 EP 563507 B1 19980527  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,  
 SE CA 2075517 AA 19931002 CA 1992-2075517 19920807  
 CA 2075517 C 19970311  
 AT 166574 E 19980615 AT 1992-850190 19920813  
 ES 2118124 T3 19980916 ES 1992-850190 19920813  
 BR 9203172 A 19931019 BR 1992-3172 19920814  
 IT **37753-10-9**, Sufosfamide  
 RL: BIOL (Biological study)  
 (transdermal patches contg., controlled-release)  
 RN 37753-10-9 CAPLUS  
 CN Ethanol,  
 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-  
 2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



L8 ANSWER 14 OF 45 CAPLUS COPYRIGHT 2001 ACS

1993:428359 Document No. 119:28359 Preparation of phosphorodiamidothioate herbicides. Kanne, David B. (Imperial Chemical Industries PLC, UK).

U.S.

US 5189169 A 19930223, 12 pp. (English). CODEN: USXXAM. APPLICATION: US 1991-790788 19911112.

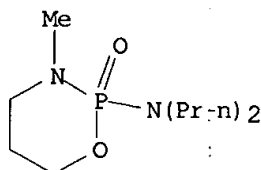
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5189169	A	19930223	US 1991-790788	19911112

IT **147465-34-7P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of, as herbicide)

RN 147465-34-7 CAPLUS

CN 2H-1,3,2-Oxazaphosphorin-2-amine, tetrahydro-3-methyl-N,N-dipropyl-, 2-oxide (9CI) (CA INDEX NAME)



L8 ANSWER 15 OF 45 CAPLUS COPYRIGHT 2001 ACS

1991:178387 Document No. 114:178387 Treatment of AIDS with thiophosphate derivatives of chelidonium majus alkaloids. Nowicky, Wassyl (Austria).

U.S. US 4970212 A 19901113, 25 pp. Cont.-in-part of U.S. 4,816,462. (English). CODEN: USXXAM. APPLICATION: US 1988-173564 19880325.

PRIORITY: US 1982-379415 19820518; US 1986-831082 19860220.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4970212	A	19901113	US 1988-173564	19880325
	AU 566682	B2	19871029	AU 1982-85977	19820713
	AU 8285977	A1	19830224		
	US 4816462	A	19890328	US 1986-831082	19860220

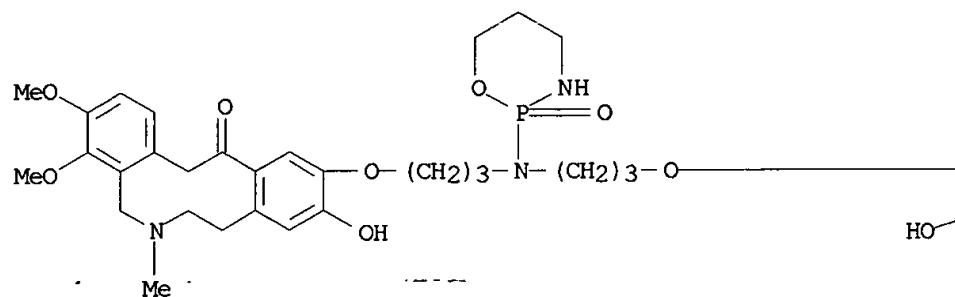
IT **86639-89-6 86639-90-9 86639-91-0 86639-92-1**

RL: BIOL (Biological study)  
(AIDS treatment by)

RN 86639-89-6 CAPLUS

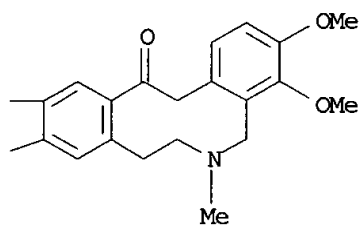
CN Dibenz[c,g]azecin-13(6H)-one, 11,11'-[[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]bis(3,1-propanediylloxy)]bis[5,7,8,14-tetrahydro-10-hydroxy-3,4-dimethoxy-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



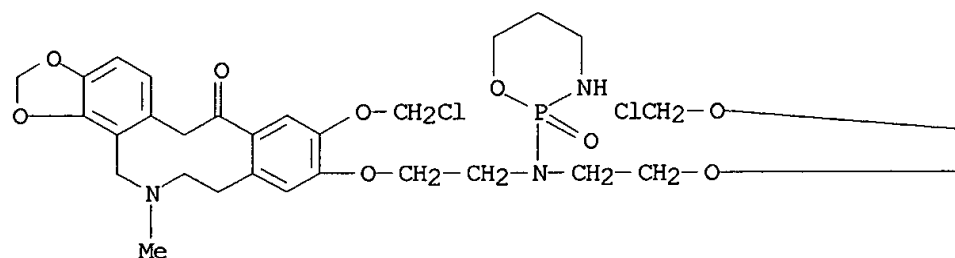
●2 HCl

PAGE 1-B



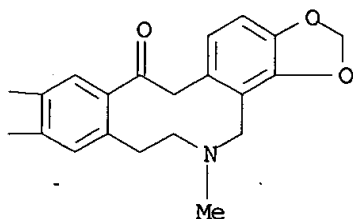
RN 86639-90-9 CAPLUS  
 CN Benzo[e]-1,3-dioxolo[4,5-b][2]benzazecine-7(6H)-one,  
 10,10'-[[[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]-2,6-(2,1-ethanediyloxy)]bis[9-(chloromethoxy)-12,13,14,15-tetrahydro-14-methyl-, dihydrochloride (9CI)  
 (CA INDEX NAME)

PAGE 1-A



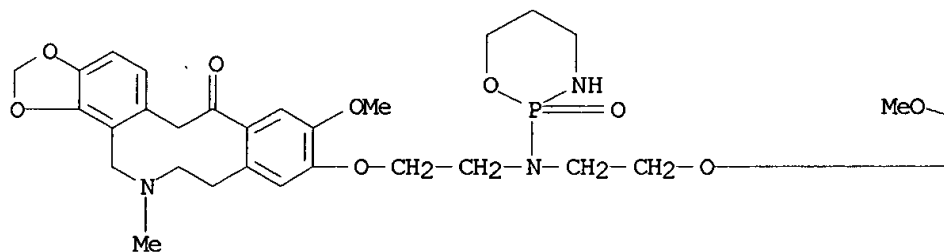
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PAGE 1-B



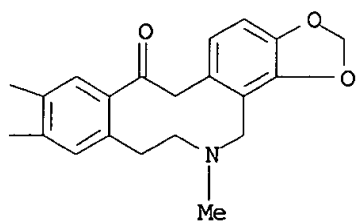
RN 86639-91-0 CAPLUS  
 CN Benzo[e]-1,3-dioxolo[4,5-l][2]benzazecin-7(6H)-one,  
 10,10'-[[[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]bis(2,1-ethanediylloxy)]bis[12,13,14,15-tetrahydro-9-methoxy-13-methyl-, tetrahydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



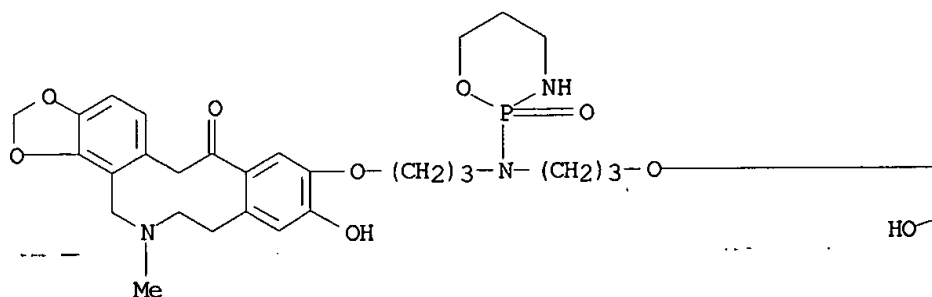
●4 HCl

PAGE 1-B

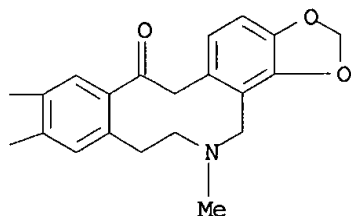


RN 86639-92-1 CAPLUS  
 CN Benzo[e]-1,3-dioxolo[4,5-l][2]benzazecin-7(6H)-one, 9,9'-[[[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]bis(3,1-propanediylloxy)]bis[12,13,14,15-tetrahydro-10-hydroxy-14-methyl-, tetrahydrochloride (9CI) (CA INDEX NAME)





●4 HCl



L8 ANSWER 16 OF 45 CAPLUS COPYRIGHT 2001 ACS

1991:102388 Document No. 114:102388 Preparation of

2H-N-acyltetrahydro-2-oxo-

1,3,2-oxazaphosphorines. Stec, Wojciech J.; Radzikowski, Czeslaw; Szelejewski, Wieslaw; Kinas, Ryszard; Misiura, Konrad; Gryniewicz, Grzegorz; Grodner, Jacek; Kutner, Andrzej; Pilichowska, Slawomira; Glazman-kusmierczyk, Halina (Instytut Przemyslu Farmaceutycznego, Pol.; Polska Akademia Nauk, Centrum Badan Molekularnych i Makromolekularnych; Instytut Immunologii i Terapii Doswiadczalnej). Pol. PL 149593 B1 19900228, 10 pp. Abstracted and indexed from the unexamined application. (Polish). CODEN: POXXA7. APPLICATION: PL 1986-263082 19861218.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 149593	B1	19900228	PL 1986-263082	19861218

IT 132147-81-0 132147-82-1

RL: RCT (Reactant)

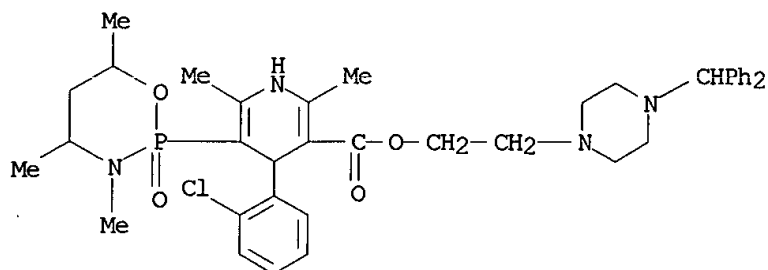
(acetylation of, with bromoacetyl halide)

RN 132147-81-0 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, 2-(2-bromoethyl)tetrahydro-, 2-oxide (9CI)

(CA

INDEX NAME)



L8 ANSWER 18 OF 45 CAPLUS COPYRIGHT 2001 ACS

1989:147878 Document No. 110:147878 A thio compound in a method for reducing

pain associated with the administration of 4-sulfidooxazaphosphorines and 4-sulfoalkylthiooxazaphosphorines. Hohorst, Hans Jurgen; Peter, Gernot; Voelcker, Georg; Wrabetz, Erhardt (Asta Pharma A.-G., Fed. Rep. Ger.).

U.S. US 4770870 A 19880913, 12 pp. Cont.-in-part of U.S. Ser. No.

454,865. (English). CODEN: USXXAM. APPLICATION: US 1985-714845

19850322. PRIORITY: DE 1981-3151977 19811231; DE 1982-3222006 19821106;

US 1982-454865 19821230.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4770870	A	19880913	US 1985-714845	19850322
IT	<b>119793-36-1</b>				

RL: BIOL (Biological study)

(drug compn., painless i.v. administration of)

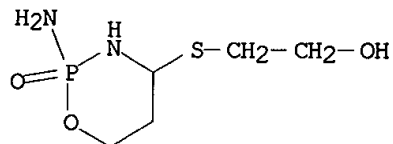
RN 119793-36-1 CAPLUS

CN L-Cysteine, mixt. with 2-[(2-aminotetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-4-yl)thio]ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 119793-35-0

CMF C5 H13 N2 O3 P S



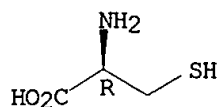
CM 2

CRN 52-90-4

CMF C3 H7 N O2 S

CDES 5:L

Absolute stereochemistry.



IT 119789-99-0D, derivs., cyclohexylamine and lysine salts

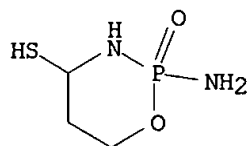
119790-01-1 119790-02-2

RL: BIOL (Biological study)

(pain assocd. with i.v. administration of, redn. of, with thio compds.)

RN 119789-99-0 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-4-thiol, 2-aminotetrahydro-, 2-oxide (9CI) (CA INDEX NAME)



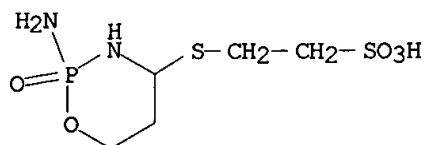
RN 119790-01-1 CAPLUS

CN Ethanesulfonic acid, 2-[(2-aminotetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-4-yl)thio]-, compd. with cyclohexanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 119790-00-0

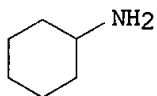
CMF C5 H13 N2 O5 P S2



CM 2

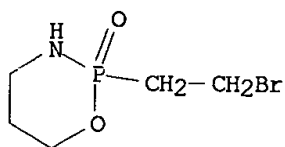
CRN 108-91-8

CMF C6 H13 N



RN 119790-02-2 CAPLUS

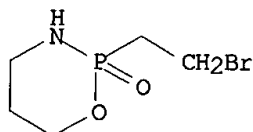
CN L-Lysine, mono[2-[(2-aminotetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-4-yl)thio]ethanesulfonate] (9CI) (CA INDEX NAME)



RN 132147-82-1 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, 2-(2-bromoethyl)tetrahydro-, 2-oxide, (+)-  
(9CI) (CA INDEX NAME)

Rotation (+):



L8 ANSWER 17 OF 45 CAPLUS COPYRIGHT 2001 ACS

1991:30121 Document No. 114:30121 Drug effect-enhancing agent for antitumor drug. Akiyama, Shinichi; Sakoda, Ryoza; Seto, Kiyotomo; Shudo, Norimasa (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 353692 A2 19900207, 40 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1989-114113 19890731. PRIORITY: JP 1988-193002 19880802; JP 1989-168545 19890630.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 353692	A2	19900207	EP 1989-114113	19890731
	EP 353692	A3	19910508		
	EP 353692	B1	19951004		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 02138221	A2	19900528	JP 1989-168549	19890630
	JP 2850376	B2	19990127		
	CA 1334752	A1	19950314	CA 1989-607026	19890731
	EP 655455	A1	19950531	EP 1995-101310	19890731
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 128623	E	19951015	AT 1989-114113	19890731
IT	US 5130303	A	19920714	US 1991-729904	19910715
	US 5304550	A	19940419	US 1993-57902	19930507
	US 5508403	A	19960416	US 1995-463511	19950605

IT 113955-12-7

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(neoplasm inhibitor activity enhancement and resistance suppression with)

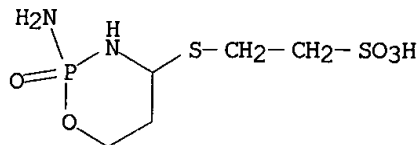
RN 113955-12-7 CAPLUS

CN 3-Pyridinecarboxylic acid, 4-(2-chlorophenyl)-1,4-dihydro-2,6-dimethyl-5-(tetrahydro-3,4,6-trimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)-, 2-[4-(diphenylmethyl)-1-piperazinyl]ethyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 119790-00-0

CMF C5 H13 N2 O5 P S2



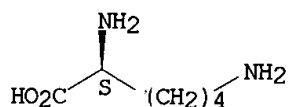
CM 2

CRN 56-87-1

CMF C6 H14 N2 O2

CDES 5:L

Absolute stereochemistry.



L8 ANSWER 19 OF 45 CAPLUS COPYRIGHT 2001 ACS  
1988:544599 Document No. 109:144599 Benzoxazaphosphorine derivatives and  
agrochemical insecticidal compositions containing them. Yoshikawa,  
Hiromichi; Imai, Yasushi (Asahi Chemical Industry Co., Ltd., Japan).  
Jpn.

Kokai Tokkyo Koho JP 62249996 A2 19871030 Showa, 18 pp. (Japanese).

CODEN: JKXXAF. APPLICATION: JP 1986-92409 19860423.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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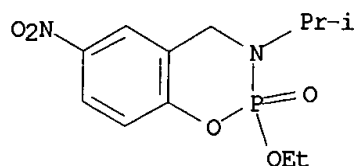
PI	JP 62249996	A2	19871030	JP 1986-92409	19860423
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IT	116617-91-5P	116617-92-6P	116617-93-7P
	116617-94-8P	116617-95-9P	116617-96-0P
	116617-97-1P	116617-98-2P	116617-99-3P
	116618-00-9P	116618-03-2P	116618-04-3P
	116618-07-6P	116618-08-7P	116618-12-3P
	116618-13-4P	116618-14-5P	116618-15-6P
	116618-16-7P	116618-17-8P	117343-48-3P
	117343-49-4P	117343-50-7P	117343-51-8P
	117729-43-8P		

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as agrochem. insecticide)

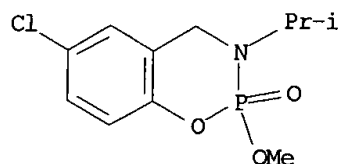
RN 116617-91-5 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 2-ethoxy-3,4-dihydro-3-(1-methylethyl)-6-nitro-, 2-oxide (9CI) (CA INDEX NAME)



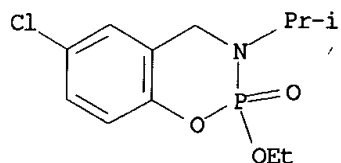
RN 116617-92-6 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 6-chloro-3,4-dihydro-2-methoxy-3-(1-methylethyl)-, 2-oxide (9CI) (CA INDEX NAME)



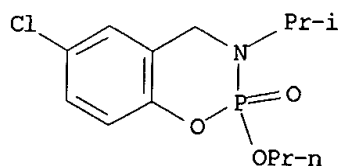
RN 116617-93-7 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 6-chloro-2-ethoxy-3,4-dihydro-3-(1-methylethyl)-, 2-oxide (9CI) (CA INDEX NAME)



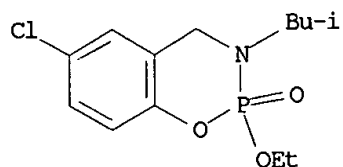
RN 116617-94-8 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 6-chloro-3,4-dihydro-2-(1-methylethyl)-2-propoxy-, 2-oxide (9CI) (CA INDEX NAME)



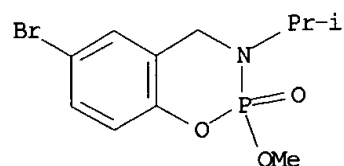
RN 116617-95-9 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 6-chloro-2-ethoxy-3,4-dihydro-3-(2-methylpropyl)-, 2-oxide (9CI) (CA INDEX NAME)



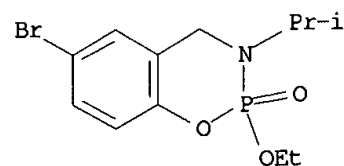
RN 116617-96-0 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 6-bromo-3,4-dihydro-2-methoxy-3-(1-methylethyl)-, 2-oxide (9CI) (CA INDEX NAME)



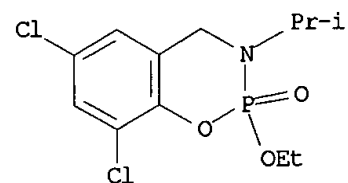
RN 116617-97-1 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 6-bromo-2-ethoxy-3,4-dihydro-3-(1-methylethyl)-, 2-oxide (9CI) (CA INDEX NAME)



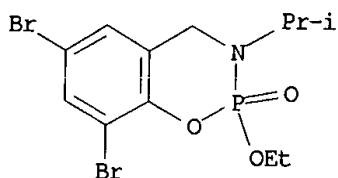
RN 116617-98-2 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 6,8-dichloro-2-ethoxy-3,4-dihydro-3-(1-methylethyl)-, 2-oxide (9CI) (CA INDEX NAME)



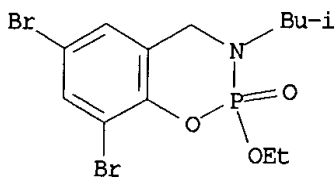
RN 116617-99-3 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 6,8-dibromo-2-ethoxy-3,4-dihydro-3-(1-methylethyl)-, 2-oxide (9CI) (CA INDEX NAME)



RN 116618-00-9 CAPLUS

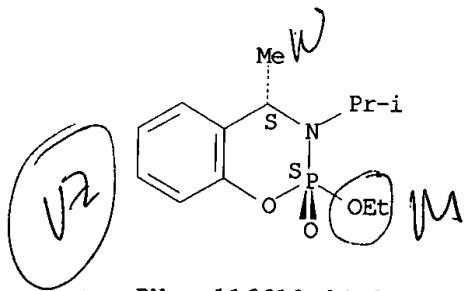
CN 2H-1,3,2-Benzoxazaphosphorine, 6,8-dibromo-2-ethoxy-3-(2-methylpropyl)-, 2-oxide (9CI) (CA INDEX NAME)



RN 116618-03-2 CAPLUS

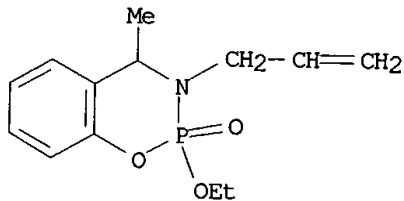
CN 2H-1,3,2-Benzoxazaphosphorine, 2-ethoxy-3,4-dihydro-4-methyl-3-(1-methylethyl)-, 2-oxide, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 116618-04-3 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 2-ethoxy-3,4-dihydro-4-methyl-3-(2-propenyl)-, 2-oxide (9CI) (CA INDEX NAME)



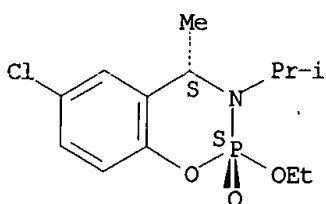
RN 116618-07-6 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 6-chloro-2-ethoxy-3,4-dihydro-4-methyl-3-(1-methylethyl)-, 2-oxide, cis- (9CI) (CA INDEX NAME)

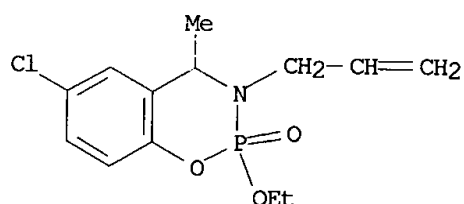
Relative stereochemistry.

1, 2, 17, 18  
20, 21, 29

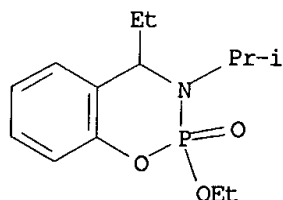




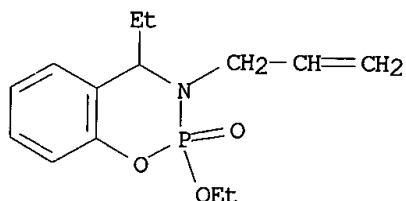
RN 116618-08-7 CAPLUS  
 CN 2H-1,3,2-Benzoxazaphosphorine,  
 6-chloro-2-ethoxy-3,4-dihydro-4-methyl-3-(2-  
 propenyl)-, 2-oxide (9CI) (CA INDEX NAME)



RN 116618-12-3 CAPLUS  
 CN 2H-1,3,2-Benzoxazaphosphorine, 2-ethoxy-4-ethyl-3,4-dihydro-3-(1-  
 methylethyl)-, 2-oxide (9CI) (CA INDEX NAME)

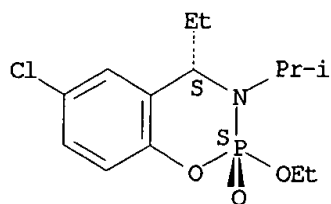


RN 116618-13-4 CAPLUS  
 CN 2H-1,3,2-Benzoxazaphosphorine,  
 2-ethoxy-4-ethyl-3,4-dihydro-3-(2-propenyl)-  
 , 2-oxide (9CI) (CA INDEX NAME)



RN 116618-14-5 CAPLUS  
 CN 2H-1,3,2-Benzoxazaphosphorine,  
 6-chloro-2-ethoxy-4-ethyl-3,4-dihydro-3-(1-  
 methylethyl)-, 2-oxide, cis- (9CI) (CA INDEX NAME)

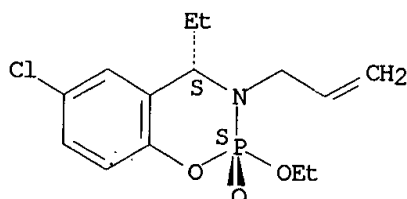
Relative stereochemistry.



RN 116618-15-6 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine,  
6-chloro-2-ethoxy-4-ethyl-3,4-dihydro-3-(2-  
propenyl)-, 2-oxide, cis- (9CI) (CA INDEX NAME)

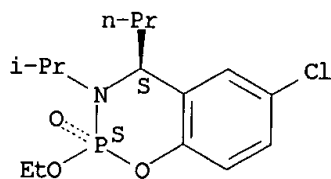
Relative stereochemistry.



RN 116618-16-7 CAPLUS

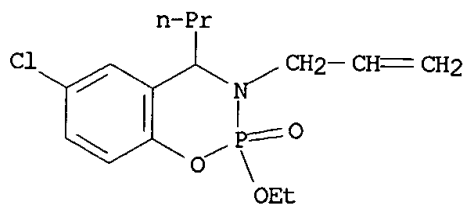
CN 2H-1,3,2-Benzoxazaphosphorine, 6-chloro-2-ethoxy-3,4-dihydro-3-(1-  
methylethyl)-4-propyl-, 2-oxide, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 116618-17-8 CAPLUS

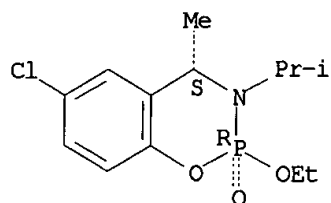
CN 2H-1,3,2-Benzoxazaphosphorine, 6-chloro-2-ethoxy-3,4-dihydro-3-(2-  
propenyl)-4-propyl-, 2-oxide (9CI) (CA INDEX NAME)



RN 117343-48-3 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine,  
6-chloro-2-ethoxy-3,4-dihydro-4-methyl-3-(1-  
methylethyl)-, 2-oxide, trans- (9CI) (CA INDEX NAME)

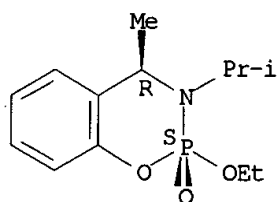
Relative stereochemistry.



RN 117343-49-4 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 2-ethoxy-3,4-dihydro-4-methyl-3-(1-methylethyl)-, 2-oxide, trans- (9CI) (CA INDEX NAME)

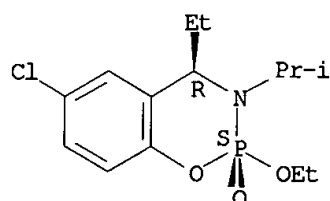
Relative stereochemistry.



RN 117343-50-7 CAPLUS

CN 2H-1,3,2-Benzoxazaphosphorine, 6-chloro-2-ethoxy-4-ethyl-3,4-dihydro-3-(1-methylethyl)-, 2-oxide, trans- (9CI) (CA INDEX NAME)

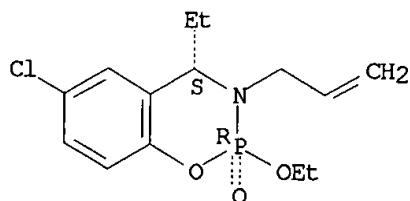
Relative stereochemistry.



RN 117343-51-8 CAPLUS

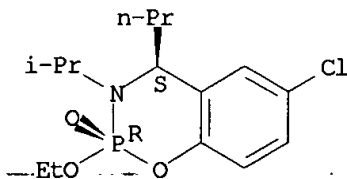
CN 2H-1,3,2-Benzoxazaphosphorine, 6-chloro-2-ethoxy-4-ethyl-3,4-dihydro-3-(2-propenyl)-, 2-oxide, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 117729-43-8 CAPLUS  
 CN 2H-1,3,2-Benzoxazaphosphorine, 6-chloro-2-ethoxy-3,4-dihydro-3-(1-methylethyl)-4-propyl-, 2-oxide, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L8 ANSWER 20 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1988:167687 Document No. 108:167687 Preparation of dihydropyridine-5-phosphonamidic acid derivatives for treatment of circulation disorders. Kamikawaji, Masumasa; Seto, Kyotomo; Sakota, Ryoza; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62195392 A2 19870828 Showa, 12 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-36402 19860220.

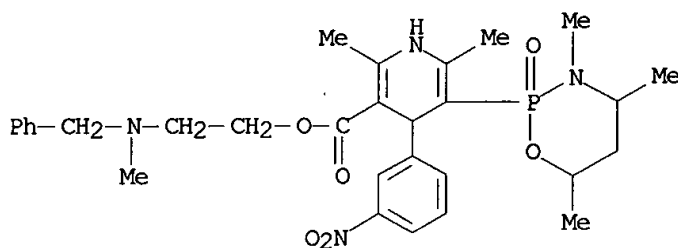
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62195392	A2	19870828	JP 1986-36402	19860220
	JP 06015553	B4	19940302		

IT **113955-08-1P 113955-09-2P 113955-10-5P**  
**113955-11-6P 113955-12-7P 113979-07-0P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of, as hypotensive and calcium antagonist)

RN 113955-08-1 CAPLUS

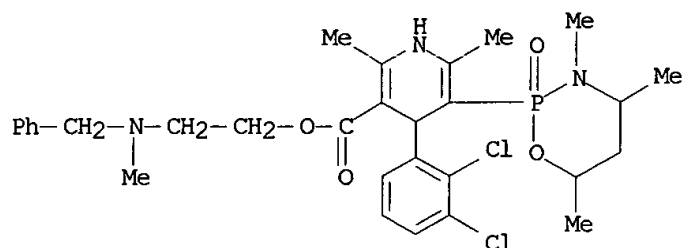
CN 3-Pyridinecarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-5-(tetrahydro-3,4,6-trimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)-, 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)



9, 11, 14, 17, 18  
 20,

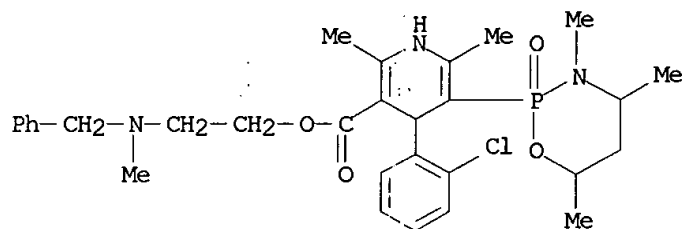
RN 113955-09-2 CAPLUS

CN 3-Pyridinecarboxylic acid,  
 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-dimethyl-  
 5-(tetrahydro-3,4,6-trimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)-,  
 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)



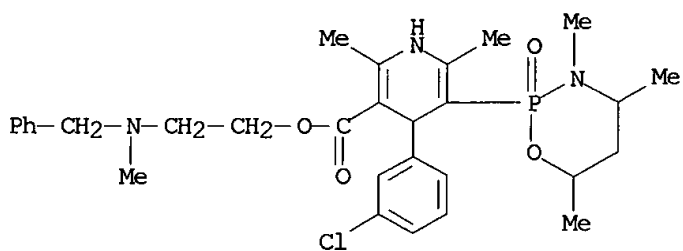
RN 113955-10-5 CAPLUS

CN 3-Pyridinecarboxylic acid, 4-(2-chlorophenyl)-1,4-dihydro-2,6-dimethyl-5-(tetrahydro-3,4,6-trimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)-, 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)



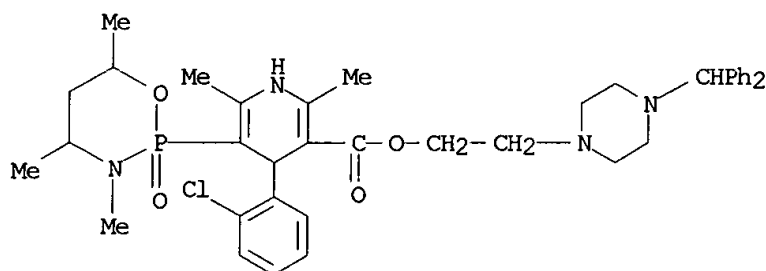
RN 113955-11-6 CAPLUS

CN 3-Pyridinecarboxylic acid, 4-(3-chlorophenyl)-1,4-dihydro-2,6-dimethyl-5-(tetrahydro-3,4,6-trimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)-, 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)

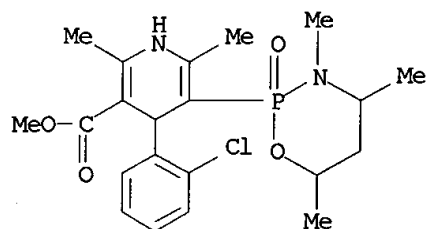


RN 113955-12-7 CAPLUS

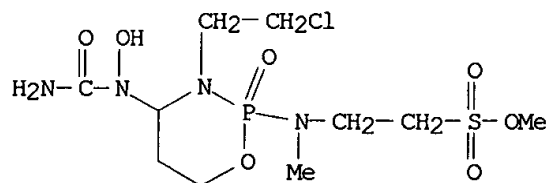
CN 3-Pyridinecarboxylic acid, 4-(2-chlorophenyl)-1,4-dihydro-2,6-dimethyl-5-(tetrahydro-3,4,6-trimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)-, 2-[4-(diphenylmethyl)-1-piperazinyl]ethyl ester (9CI) (CA INDEX NAME)



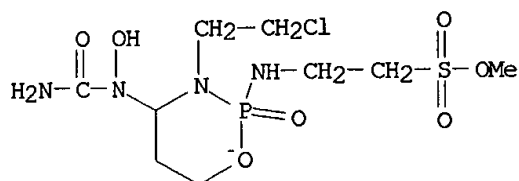
RN 113979-07-0 CAPLUS  
 CN 3-Pyridinecarboxylic acid, 4-(2-chlorophenyl)-1,4-dihydro-2,6-dimethyl-5-(tetrahydro-3,4,6-trimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 21 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1987:67498 Document No. 106:67498 4-Carbamoyloxyoxazaphosphorins.  
 Scheffler, Gerhard; Niemeyer, Ulf; Brock, Norbert; Pohl, Joerg  
 (Asta-Werke  
 A.-G., Fed. Rep. Ger.). U.S. US 4618692 A 19861021, 18 pp. Cont. of  
 U.S.  
 Ser. No. 299,006, abandoned. (English). CODEN: USXXAM. APPLICATION: US  
 1984-579570 19840213. PRIORITY: US 1981-299006 19810903.  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI US 4618692 A 19861021 US 1984-579570 19840213  
 SU 1435156 A3 19881030 SU 1985-3887403 19850513  
 IT **106371-52-2P 106392-23-8P**  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic  
 preparation); BIOL (Biological study); PREP (Preparation)  
 (prepn. of, as antitumor agent)  
 RN 106371-52-2 CAPLUS  
 CN Ethanesulfonic acid, 2-[[4-[(aminocarbonyl)hydroxyamino]-3-(2-  
 chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]methylamino]-  
 , methyl ester (9CI) (CA INDEX NAME)



RN 106392-23-8 CAPLUS  
 CN Ethanesulfonic acid, 2-[[4-[(aminocarbonyl)hydroxyamino]-3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 22 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1986:515209 Document No. 105:115209 New oxazaphosphorine compounds and pharmaceutical compositions containing them. Lavielle, Gilbert; Cudennec,

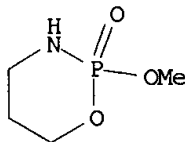
Claude (ADIR, Fr.). Fr. Demande FR 2567129 A1 19860110, 27 pp. (French).

CODEN: FRXXBL. APPLICATION: FR 1984-10731 19840706.  

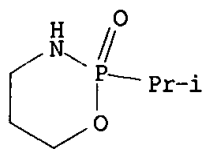
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2567129	A1	19860110	FR 1984-10731	19840706
FR 2567129	B1	19861205		
CA 1249818	A1	19890207	CA 1985-482990	19850531
EP 172059	A1	19860219	EP 1985-401359	19850704
EP 172059	B1	19880420		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 33658	E	19880515	AT 1985-401359	19850704
AU 8544641	A1	19860109	AU 1985-44641	19850705
AU 571414	B2	19880414		
ZA 8505082	A	19860226	ZA 1985-5082	19850705
JP 61044894	A2	19860304	JP 1985-148144	19850705
JP 02050120	B4	19901101		
ES 544927	A1	19860716	ES 1985-544927	19850705
US 4605647	A	19860812	US 1985-752365	19850705

IT **67882-57-9P 104125-16-8P 104125-18-0P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and addn. of, with chloroethyl isocyanate)

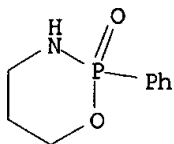
RN 67882-57-9 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine, tetrahydro-2-methoxy-, 2-oxide (9CI) (CA INDEX NAME)



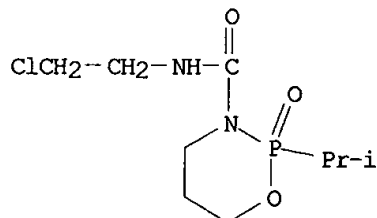
RN 104125-16-8 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine, tetrahydro-2-(1-methylethyl)-, 2-oxide (9CI) (CA INDEX NAME)



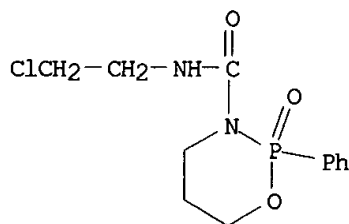
RN 104125-18-0 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine, tetrahydro-2-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



IT 104125-17-9P 104125-19-1P 104125-20-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and nitrosation of)  
 RN 104125-17-9 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl)dihydro-2-(1-methylethyl)-, 2-oxide (9CI) (CA INDEX NAME)

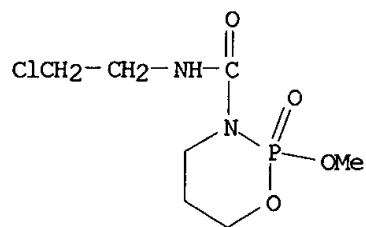


RN 104125-19-1 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl)dihydro-2-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



RN 104125-20-4 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl)dihydro-2-methoxy-, 2-oxide (9CI) (CA INDEX NAME)





IT 104125-02-2P 104125-03-3P 104125-04-4P

104125-05-5P 104125-06-6P 104125-07-7P

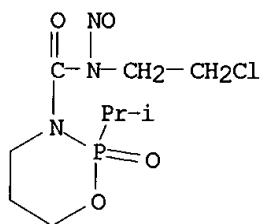
104125-08-8P 104125-09-9P 104125-10-2P

104125-11-3P 104125-12-4P 104125-13-5P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(prepn. of, as antitumor agent)

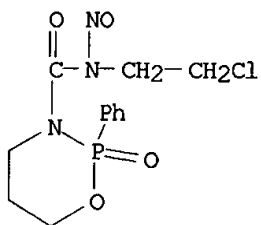
RN 104125-02-2 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide,  
N-(2-chloroethyl)dihydro-2-(1-methylethyl)-N-nitroso-, 2-oxide (9CI) (CA INDEX NAME)



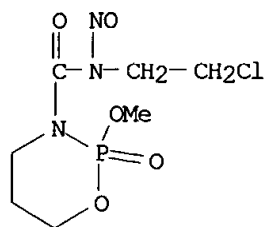
RN: 104125-03-3 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl)dihydro-N-nitroso-2-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



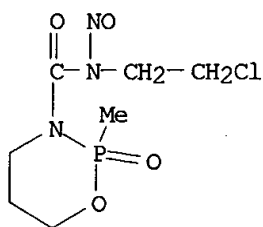
RN 104125-04-4 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl)dihydro-2-methoxy-N-nitroso-, 2-oxide (9CI) (CA INDEX NAME)



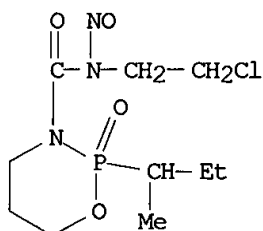
RN 104125-05-5 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl) dihydro-2-(1-methyl-N-nitroso-, 2-oxide (9CI) (CA INDEX NAME)



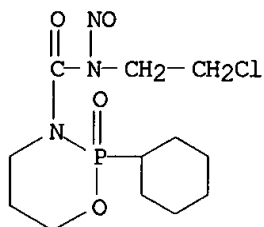
RN 104125-06-6 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl) dihydro-2-(1-methylpropyl)-N-nitroso-, 2-oxide (9CI) (CA INDEX NAME)



RN 104125-07-7 CAPLUS

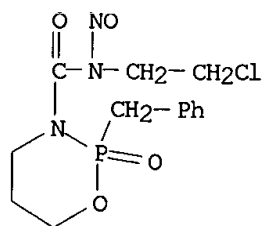
CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl)-2-cyclohexyldihydro-N-nitroso-, 2-oxide (9CI) (CA INDEX NAME)



RN 104125-08-8 CAPLUS

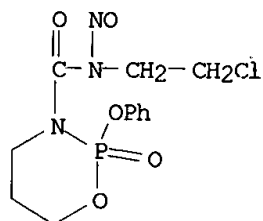
CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl) dihydro-N-nitroso-, 2-oxide (9CI) (CA INDEX NAME)

nitroso-2-(phenylmethyl)-, 2-oxide (9CI) (CA INDEX NAME)



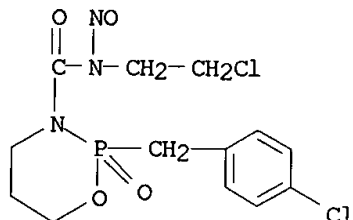
RN 104125-09-9 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl)-2-(2-chloroethoxy)-2-oxide (9CI) (CA INDEX NAME)



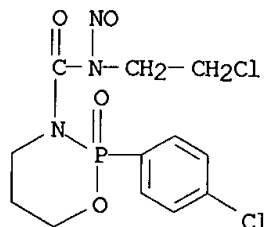
RN 104125-10-2 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl)-2-[(4-chlorophenyl)methyl]-2-oxide (9CI) (CA INDEX NAME)



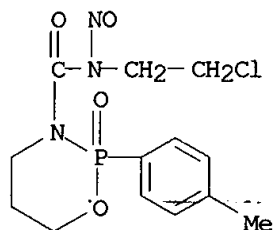
RN 104125-11-3 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl)-2-(4-chlorophenyl)-2-oxide (9CI) (CA INDEX NAME)



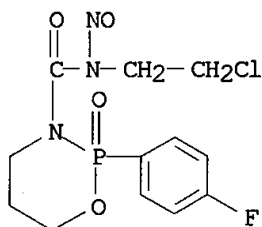
RN 104125-12-4 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide,  
N-(2-chloroethyl)dihydro-2-(4-  
methylphenyl)-N-nitroso-, 2-oxide (9CI) (CA INDEX NAME)



RN 104125-13-5 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-carboxamide, N-(2-chloroethyl)-2-(4-  
fluorophenyl)dihydro-N-nitroso-, 2-oxide (9CI) (CA INDEX NAME)



L8 ANSWER 23 OF 45 CAPLUS COPYRIGHT 2001 ACS

1985:488076 Document No. 103:88076 4-Carbamoyloxyoxaphosphorines useful in  
chemotherapy. (Asta-Werke A.-G., Fed. Rep. Ger.). Belg. BE 900370 A4  
19841217, 27 pp. Addn. to Belg. 890,276. (French). CODEN: BEXXAL.

APPLICATION: BE 1984-60475 19840817. PRIORITY: BE 1981-59345 19810909.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 900370	A4	19841217	BE 1984-60475	19840817
BE 890276	A1	19820104	BE 1981-59345	19810909

PI	BE 900370	A4	19841217	BE 1984-60475	19840817
	BE 890276	A1	19820104	BE 1981-59345	19810909

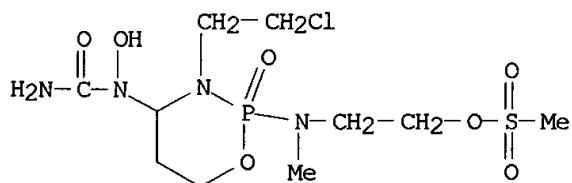
IT **97139-10-1P 97139-12-3P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as antineoplastic)

RN 97139-10-1 CAPLUS

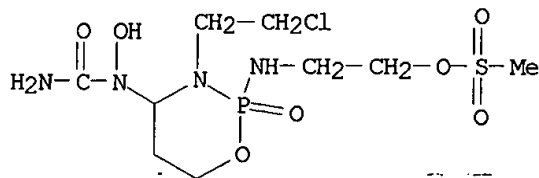
CN Urea, N-[3-(2-chloroethyl)tetrahydro-2-[methyl{2-

[(methylsulfonyl)oxy]ethyl]amino]-2-oxido-2H-1,3,2-oxazaphosphorin-4-yl]-N-  
hydroxy- (9CI) (CA INDEX NAME)

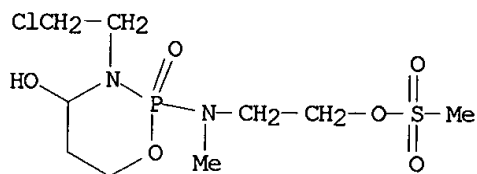


RN 97139-12-3 CAPLUS

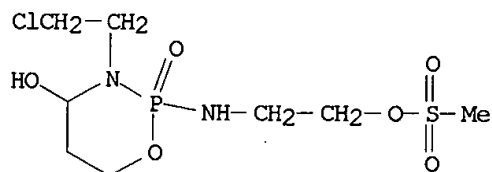
CN Urea,  
N-[3-(2-chloroethyl)tetrahydro-2-[[2-[(methylsulfonyl)oxy]ethyl]amin  
o]-2-oxido-2H-1,3,2-oxazaphosphorin-4-yl]-N-hydroxy- (9CI) (CA INDEX  
NAME)



IT **97139-23-6 97139-25-8**  
RL: RCT (Reactant)  
(reaction of, with urea deriv.)  
RN 97139-23-6 CAPLUS  
CN 2H-1,3,2-Oxazaphosphorin-4-ol, 3-(2-chloroethyl)tetrahydro-2-[methyl[2-  
[(methylsulfonyl)oxy]ethyl]amino]-, 2-oxide (9CI) (CA INDEX NAME)



RN 97139-25-8 CAPLUS  
CN 2H-1,3,2-Oxazaphosphorin-4-ol, 3-(2-chloroethyl)tetrahydro-2-[[2-  
[(methylsulfonyl)oxy]ethyl]amino]-, 2-oxide (9CI) (CA INDEX NAME)



L8 ANSWER 24 OF 45 CAPLUS COPYRIGHT 2001 ACS  
1985:95819 Document No. 102:95819 4-Ureidooxyoxazaphosphorins useful in  
treating malignant tumors. (Asta-Werke A.-G., Fed. Rep. Ger.). Belg. BE  
899457 A4 19840816, 26 pp. Addn. to Belg. 890,276. (French). CODEN:  
BEXXAL. APPLICATION: BE 1984-60394 19840419. PRIORITY: GB 1980-29222  
19800910; BE 1981-890276 19810909.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 899457	A4	19840816	BE 1984-60394	19840419

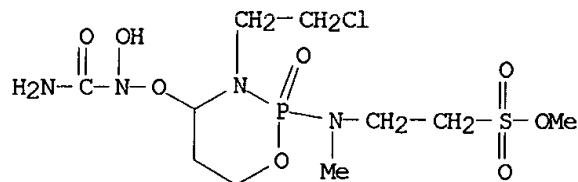
IT **94831-33-1P 94831-35-3P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 94831-33-1 CAPLUS

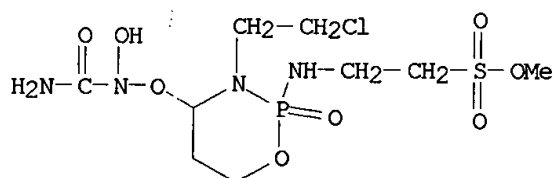
CN Ethanesulfonic acid, 2-[[4-[[[(aminocarbonyl)hydroxyamino]oxy]-3-(2-  
chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]methylamino]-

, methyl ester (9CI) (CA INDEX NAME)



RN 94831-35-3 CAPLUS

CN Ethanesulfonic acid, 2-[[4-[[[(aminocarbonyl)hydroxyamino]oxy]-3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 25 OF 45 CAPLUS COPYRIGHT 2001 ACS

1984:34702 Document No. 100:34702 Optically active derivatives of 1,3,2-oxazaphosphorinane. Stec, Wojciech Jerzy; Kinas, Ryszard; Pankiewicz, Krzysztof (Polska Akademia Nauk, Centrum Badan Molekularnych

i Makromolekularnych, Pol.). Pol. PL 119971 B1 19830831, 6 pp. (Polish). CODEN: POXXA7. APPLICATION: PL 1978-210736 19781106.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 119971	B1	19820227	PL 1978-210736	19781106

PI PL 119971 B1 19820227 PL 1978-210736 19781106

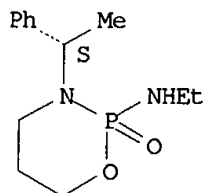
IT 88142-38-5P 88142-39-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrogenolysis of)

RN 88142-38-5 CAPLUS

CN 2H-1,3,2-Oxazaphosphorin-2-amine, N-ethyltetrahydro-3-(1-phenylethyl)-, 2-oxide, [3(S)]- (9CI) (CA INDEX NAME)

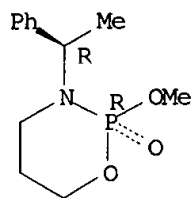
Absolute stereochemistry.



RN 88142-39-6 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, tetrahydro-2-methoxy-3-(1-phenylethyl)-, 2-oxide, [R-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 88142-41-0P 88142-45-4P 88142-46-5P

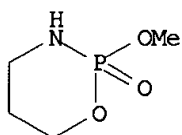
RL: SPN (Synthetic preparation); PREP (Preparation)  
- (prepn. of)

RN 88142-41-0 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, tetrahydro-2-methoxy-, 2-oxide, (+)- (9CI)  
(CA

INDEX NAME)

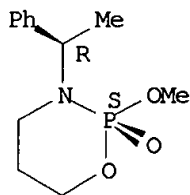
Rotation (+).



RN 88142-45-4 CAPLUS

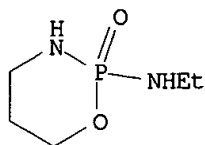
CN 2H-1,3,2-Oxazaphosphorine, tetrahydro-2-methoxy-3-(1-phenylethyl)-,  
2-oxide, [S-(R\*,S\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 88142-46-5 CAPLUS

CN 2H-1,3,2-Oxazaphosphorin-2-amine, N-ethyltetrahydro-, 2-oxide (9CI) (CA  
INDEX NAME)



L8 ANSWER 26 OF 45 CAPLUS COPYRIGHT 2001 ACS

1983:471067 Document No. 99:71067 Diagnostic and therapeutic treatment of  
tumors and/or infectious diseases of all types using alkaloid  
compositions

or their salts. Nowicky, Wassyl (Austria). PCT Int. Appl. WO 8300486 A1 19830217, 59 pp. DESIGNATED STATES: W: AT, AU, BR, CH, DE, DK, FI, GB, HU, JP, KP, LK, LU, MC, MG, MW, NL, NO, RO, SE; RW: AT, BE, CF, CG, CH, CM, DE, FR, GA, GB, LU, NL, SE, SN, TD, TG. (German). CODEN: PIXXD2. APPLICATION: WO 1982-AT21 19820708. PRIORITY: DE 1981-3128018 19810713. PATENT NO. KIND DATE APPLICATION NO. DATE

		KIND	DATE	APPLICATION NO.	DATE
PI	WO 8300486	A1	19830217	WO 1982-AT21	19820708
	W: AT, AU, BR, CH, DE, DK, FI, GB, HU, JP, KP, LK, LU, MC, MG, MW, NL, NO, RO, SE				
	RW: AT, BE, CF, CG, CH, CM, DE, FR, GA, GB, LU, NL, SE, SN, TD, TG				
	DE 3128018	A1	19830407	DE 1981-3128018	19810713
	AU 8286814	A1	19830222	AU 1982-86814	19820708
	AU 568483	B2	19880107		
	JP 58501074	T2	19830707	JP 1982-502047	19820708
	JP 03026199	B4	19910410		
	EP 83600	A1	19830720	EP 1982-901956	19820708
	EP 83600	B1	19871125		
	R: AT, BE, CH, DE, FR, GB, LI, LU, NL, SE				
	AT 31064	E	19871215	AT 1982-901956	19820708
	GB 2110533	A1	19830622	GB 1982-20293	19820713
	GB 2110533	B2	19860611		
	ZA 8204983	A	19840425	ZA 1982-4983	19820713
	AU 566682	B2	19871029	AU 1982-85977	19820713
	AU 8285977	A1	19830224		
	FI 8300760	A	19830307	FI 1983-760	19830307
	FI 73131	B	19870529		
	FI 73131	C	19870910		

IT **86639-89-6P 86639-90-9P 86639-91-0P 86639-92-1P**

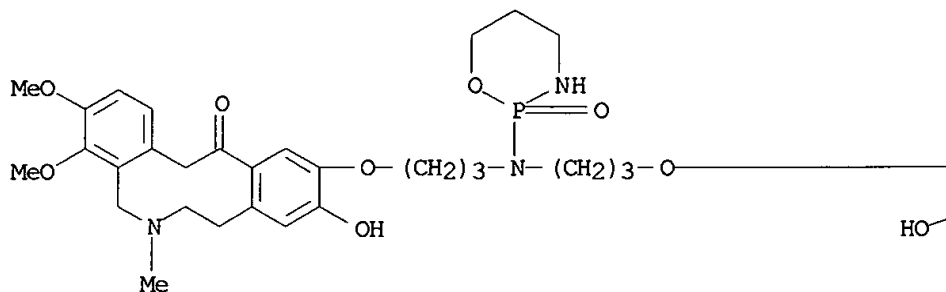
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 86639-89-6 CAPLUS

CN Dibenz[c,g]azecin-13(6H)-one, 11,11'-[[ (tetrahydro-2-oxido-2H-1,3,2-

oxazaphosphorin-2-yl)imino]bis(3,1-propanediyl)bis[5,7,8,14-tetrahydro-10-hydroxy-3,4-dimethoxy-, dihydrochloride (9CI) (CA INDEX NAME)

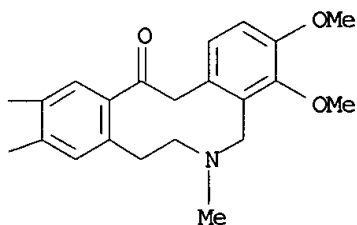
PAGE 1-A



●2 HCl

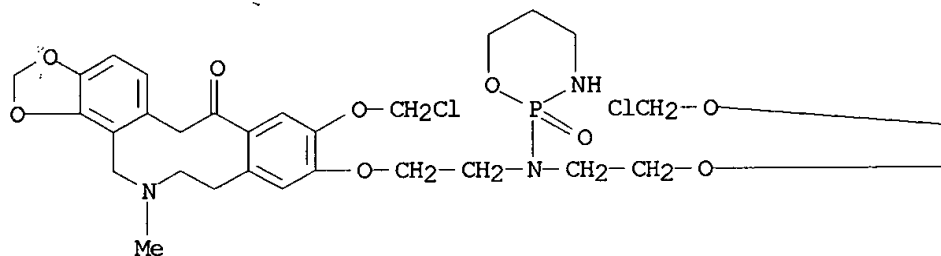


PAGE 1-B



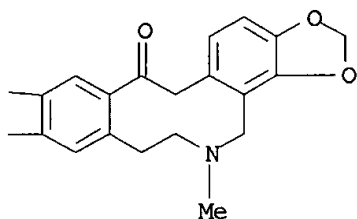
RN 86639-90-9 CAPLUS  
CN Benzo[e]-1,3-dioxolo[4,5-l][2]benzazecin-7(6H)-one,  
10,10'-[[ (tetrahydro-2-  
oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]-2,6-(2,1-ethanediylloxy)]bis[9-  
(chloromethoxy)-12,13,14,15-tetrahydro-14-methyl-, dihydrochloride (9CI)  
(CA INDEX NAME)

PAGE 1-A



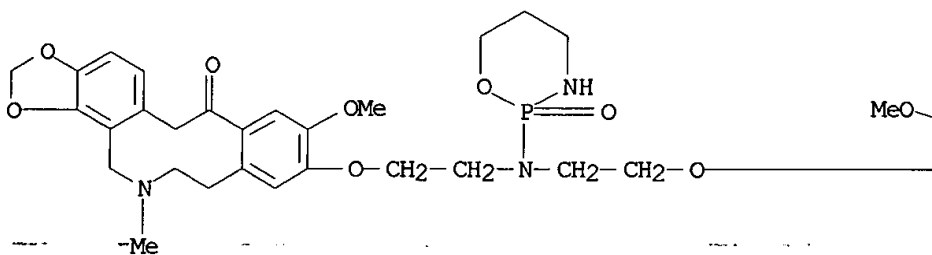
● 2 HCl

PAGE 1-B



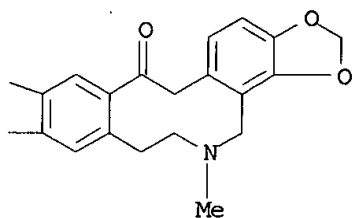
RN 86639-91-0 CAPLUS  
CN Benzo[e]-1,3-dioxolo[4,5-l][2]benzazecin-7(6H)-one,  
10,10'-[[ (tetrahydro-2-  
oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]bis(2,1-  
ethanediylloxy)]bis[12,13,14,15-tetrahydro-9-methoxy-13-methyl-,  
tetrahydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



● 4 HCl

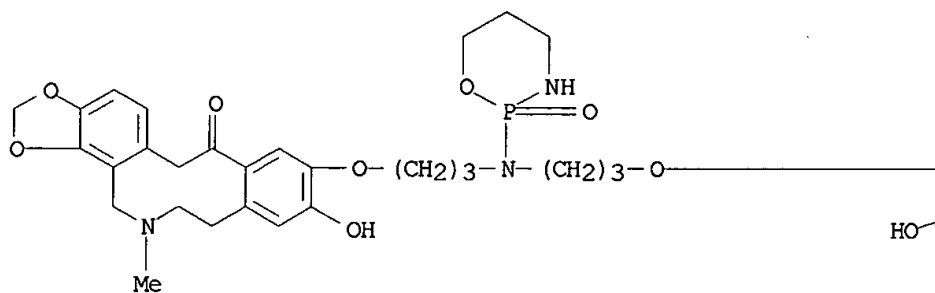
PAGE 1-B



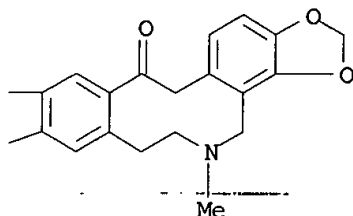
RN 86639-92-1 CAPLUS

CN Benzo[e]-1,3-dioxolo[4,5-l][2]benzazecin-7(6H)-one, 9,9'-[[ (tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]bis(3,1-propanediylloxy)]bis[12,13,14,15-tetrahydro-10-hydroxy-14-methyl-, tetrahydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



4 HCl



L8 ANSWER 27 OF 45 CAPLUS COPYRIGHT 2001 ACS

1983:422692 Document No. 99:22692 Cytostatically active 1,3,2-oxazaphosphorin compounds and their use in pharmaceutical compositions. Wilk, Hans Christoph; Moeller, Hinrich; Fischer, Herbert; Zeidler, Ulrich;

Hase, Brigitte (Henkel K.-G.a.A., Fed. Rep. Ger.). Ger. Offen. DE 3133077

A1 19830310, 12 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1981-3133077 19810821.

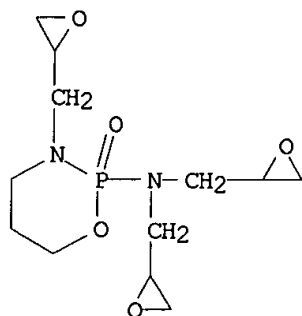
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3133077	A1	19830310	DE 1981-3133077	19810821
	EP 72987	A1	19830302	EP 1982-107361	19820813
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP 58039691	A2	19830308	JP 1982-143476	19820820

IT **86127-70-0P 86127-71-1P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and antitumor activity of)

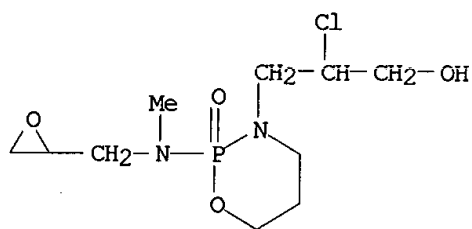
RN 86127-70-0 CAPLUS

CN 2H-1,3,2-Oxazaphosphorin-2-amine, tetrahydro-N,N,3-tris(oxiranylmethyl)-, 2-oxide (9CI) (CA INDEX NAME)



RN 86127-71-1 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-propanol, .beta.-chlorodihydro-2-[methyl(oxiranylmethyl)amino]-, 2-oxide (9CI) (CA INDEX NAME)



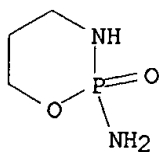
IT 5638-55-1 86127-72-2 86127-74-4

RL: RCT (Reactant)

(reaction of, with epichlorohydrin)

RN 5638-55-1 CAPLUS

CN 2H-1,3,2-Oxazaphosphorin-2-amine, tetrahydro-, 2-oxide (9CI) (CA INDEX NAME)

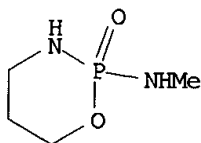


RN 86127-72-2 CAPLUS

CN 2H-1,3,2-Oxazaphosphorin-2-amine, tetrahydro-N-methyl-, 2-oxide (9CI)

(CA

INDEX NAME)

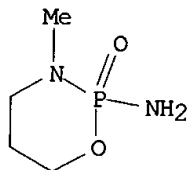


RN 86127-74-4 CAPLUS

CN 2H-1,3,2-Oxazaphosphorin-2-amine, tetrahydro-3-methyl-, 2-oxide (9CI)

(CA

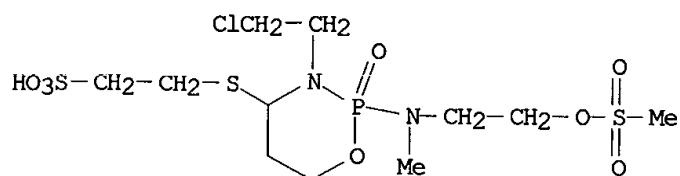
INDEX NAME)



L8 ANSWER 28 OF 45 CAPLUS COPYRIGHT 2001 ACS

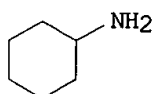
1983:53945 Document No. 98:53945 (1,3,2-Oxazaphosphorin-4-ylthio)alkanesulfonic acids, their neutral salts and their pharmaceutical preparations. (Asta-Werke A.-G., Fed. Rep. Ger.). Belg. BE 892589 A1 19820716, 39 pp. (French). CODEN: BEXXAL. APPLICATION: BE 1982-59642

19820323. PRIORITY: DE 1981-3111428			19810324.		
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 892589	A1	19820716	BE 1982-59642	19820323
	DE 3111428	A1	19821007	DE 1981-3111428	19810324
	DE 3111428	C2	19900613		
	CH 648852	A	19850415	CH 1982-1390	19820308
	ZA 8201637	A	19830223	ZA 1982-1637	19820311
	GB 2095256	A	19820929	GB 1982-7375	19820312
	GB 2095256	B2	19840822		
	AU 8281344	A1	19820930	AU 1982-81344	19820312
	AU 544493	B2	19850530		
	IL 65255	A1	19860331	IL 1982-65255	19820315
	AT 8201063	A	19860215	AT 1982-1063	19820317
	AT 381317	B	19860925		
	SE 8201807	A	19820925	SE 1982-1807	19820322
	SE 452159	B	19871116		
	SE 452159	C	19880225		
	FR 2502626	A1	19821001	FR 1982-4823	19820322
	FR 2502626	B1	19860103		
	RO 84661	P	19841031	RO 1982-106989	19820322
	FI 8201021	A	19820925	FI 1982-1021	19820323
	FI 69849	B	19851231		
	FI 69849	C	19860526		
	DK 8201298	A	19820925	DK 1982-1298	19820323
	DK 171843	B1	19970630		
	NO 8200957	A	19820927	NO 1982-957	19820323
	NO 163692	B	19900326		
	NO 163692	C	19900704		
	JP 57169496	A2	19821019	JP 1982-44779	19820323
	JP 02040680	B4	19900912		
	ES 510677	A1	19830201	ES 1982-510677	19820323
	DD 201799	A5	19830810	DD 1982-238374	19820323
	HU 27203	O	19831028	HU 1982-879	19820323
	HU 186915	B	19851028		
	CA 1194479	A1	19851001	CA 1982-399098	19820323
	SU 1318167	A3	19870615	SU 1982-3414100	19820323
NL 8201227	A	19821018	NL 1982-1227	19820324	
NL 192741	B	19970901			
NL 192741	C	19980106			
PL 129426	B1	19840531	PL 1982-235606	19820324	
US 4623742	A	19861118	US 1984-683374	19841219	
US 4929607	A	19900529	US 1988-149954	19880202	
IT	<b>84210-95-7P</b>				
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)				
RN	84210-95-7 CAPLUS				
CN	Ethanesulfonic acid, 2-[[[3-(2-chloroethyl)tetrahydro-2-[methyl[2- [(methylsulfonyl)oxy]ethyl]amino]-2-oxido-2H-1,3,2-oxazaphosphorin-4- yl]thio]-, compd. with cyclohexanamine (1:1) (9CI) (CA INDEX NAME)				
CM	1				
CRN	84210-94-6				
CMF	C11 H24 Cl N2 O8 P S3				



CM 2

CRN 108=91-8  
CMF C6 H13 N



L8 ANSWER 29 OF 45 CAPLUS COPYRIGHT 2001 ACS  
1982:406524 Document No. 97:6524 4-Carbamoyloxyoxazaphosphorines and  
pharmaceutical preparations containing them. (Asta-Werke A.-G., Fed. Rep.  
Ger.). Belg. BE 890276 A1 19820104, 27 pp. (French). CODEN: BEXXAL.  
APPLICATION: BE 1981-59345 19810909. PRIORITY: GB 1980-29222 19800910.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 890276	A1	19820104	BE 1981-59345	19810909
	DE 3133309	A1	19820415	DE 1981-3133309	19810822
	DE 3133309	C2	19890727		
	AU 8174657	A1	19820318	AU 1981-74657	19810826
	AU 538275	B2	19840809		
	ZA 8105922	A	19820929	ZA 1981-5922	19810826
	IL 63661	A1	19870130	IL 1981-63661	19810826
	CH 650787	A	19850815	CH 1981-5584	19810831
	NL 8104093	A	19820401	NL 1981-4093	19810903
	GB 2084154	A	19820407	GB 1981-26785	19810904
	CS 227680	P	19840514	CS 1981-6537	19810904
	AT 8103864	A	19871215	AT 1981-3864	19810907
	AT 386210	B	19880725		
	SE 8105340	A	19820311	SE 1981-5340	19810908
	SE 458203	B	19890306		
	SE 458203	C	19890629		
	FR 2489825	A1	19820312	FR 1981-16999	19810908
	FR 2489825	B1	19841123		
	DD 202166	A5	19830831	DD 1981-233132	19810908
	HU 26864	O	19830928	HU 1981-2580	19810908
	HU 185953	B	19850428		
	RO 83972	P	19840929	RO 1981-105257	19810908
	FI 8102798	A	19820311	FI 1981-2798	19810909
	FI 70026	B	19860131		
	FI 70026	C	19860912		
	NO 8103063	A	19820311	NO 1981-3063	19810909
	NO 161261	B	19890417		
	NO 161261	C	19890726		
	DK 8104004	A	19820311	DK 1981-4004	19810909

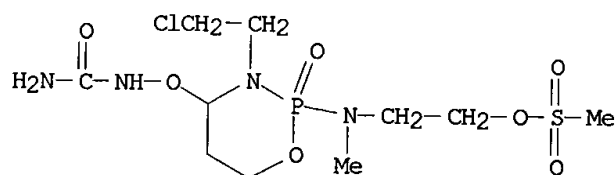
JP 57085396	A2	19820528	JP 1981-141108	19810909
JP 02009599	B4	19900302		
ES 505324	A1	19820816	ES 1981-505324	19810909
CA 1161453	A1	19840131	CA 1981-385516	19810909
PL 128627	B1	19840229	PL 1981-232960	19810909
CA 1184563	B	19850326	CA 1984-455507	19840530
BE 900370	A4	19841217	BE 1984-60475	19840817

IT **81733-22-4P 81733-24-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

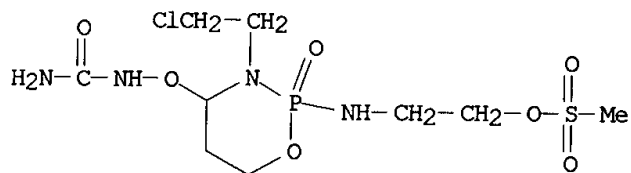
RN 81733-22-4 CAPLUS

CN Urea, [[3-(2-chloroethyl)tetrahydro-2-[methyl[2-  
[ {methylsulfonyl}oxy]ethyl]amino]-2-oxido-2H-1,3,2-oxazaphosphorin-4-  
yl]oxy]- (9CI) (CA INDEX NAME)



RN 81733-24-6 CAPLUS

CN Urea,  
[[3-(2-chloroethyl)tetrahydro-2-[[2-[(methylsulfonyl)oxy]ethyl]amino  
]-2-oxido-2H-1,3,2-oxazaphosphorin-4-yl]oxy]- (9CI) (CA INDEX NAME)



L8 ANSWER 30 OF 45 CAPLUS COPYRIGHT 2001 ACS

1981:25230 Document No. 94:25230 Treatment of humans suffering from  
undesired urotoxic side effects caused by cytostatically active  
alkylating

agents. Brock, Norbert (Asta-Werke A.-G. Chemische Fabrik, Fed. Rep.  
Ger.). U.S. US 4220660 19800902, 5 pp. (English). CODEN: USXXAM.  
PRIORITY: DE 1977-2756018 19771214.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4220660	A	19800902	US 1978-967000	19781206
	DE 2756018	B1	19790329	DE 1977-2756018	19771214
	DE 2756018	C2	19791122		

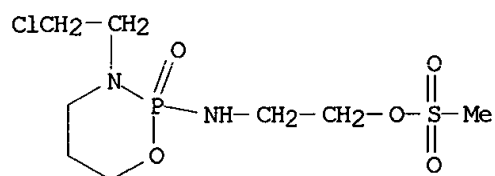
IT **37753-10-9**

RL: BIOL (Biological study)  
(urotoxicity from, mercaptoalkanesulfonate salts in treatment of)

RN 37753-10-9 CAPLUS

CN Ethanol,

2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-  
2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



L8 ANSWER 31 OF 45 CAPLUS COPYRIGHT 2001 ACS

1980:471818 Document No. 93:71818 Optically active oxazaphosphorin derivatives and their preparation. Sato, Tadao (Otsuka Pharmaceutical Co., Ltd., Japan). Brit. UK Pat. Appl. GB 2021591 19791205, 11 pp. (English). CODEN: BAXXDU. PRIORITY: JP 1978-64681 19780529.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2021591	A	19791205	GB 1979-18581	19790529
	GB 2021591	B2	19820908		
	JP 54157580	A2	19791212	JP 1978-64681	19780529
	JP 57061360	B4	19821223		
	DE 2921057	A1	19791206	DE 1979-2921057	19790523
	DE 2921057	B2	19810115		
	DE 2921057	C3	19811126		
	CA 1108175	A1	19810901	CA 1979-328094	19790523
	SU 867314	A3	19810923	SU 1979-2769753	19790525
	BE 876578	A1	19791128	BE 1979-195419	19790528
	SE 7904595	A	19791130	SE 1979-4595	19790528
	SE 446189	B	19860818		
	SE 446189	C	19861127		
	AU 7947477	A1	19791206	AU 1979-47477	19790528
	AU 516429	B2	19810604		
	CH 646710	A	19841214	CH 1979-4949	19790528
	NL 7904215	A	19791203	NL 1979-4215	19790529
	NL 183141	B	19880301		
	NL 183141	C	19880801		
	FR 2427339	A1	19791228	FR 1979-13639	19790529
	FR 2427339	B1	19840914		
	ES 481026	A1	19800201	ES 1979-481026	19790529
	US 4239709	A	19801216	US 1979-43462	19790529

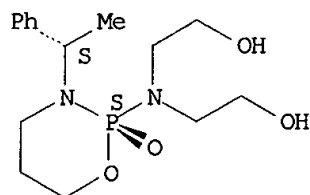
IT **73837-99-7P 74457-85-5P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and chlorination of)

RN 73837-99-7 CAPLUS

CN Ethanol, 2,2'-[[tetrahydro-2-oxido-3-(1-phenylethyl)-2H-1,3,2-oxazaphosphorin-2-yl]imino]bis-, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

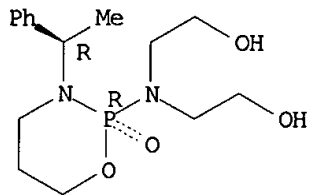


RN 74457-85-5 CAPLUS



CN Ethanol, 2,2'-[[tetrahydro-2-oxido-3-(1-phenylethyl)-2H-1,3,2-oxazaphosphorin-2-yl]imino]bis-, [R-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 32 OF 45 CAPLUS COPYRIGHT 2001 ACS  
1980:426467 Document No. 93:26467 Oxazaphospholine derivatives. Sato,  
Tadao

(Otsuka Pharmaceutical Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP  
54157581 19791212 Showa, 10 pp. (Japanese). CODEN: JKXXAF.

APPLICATION:

JP 1978-64682 19780529.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 54157581	A2	19791212	JP 1978-64682	19780529
	JP 63000439	B4	19880107		

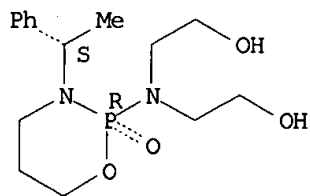
IT **73834-60-3P 73837-99-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 73834-60-3 CAPLUS

CN Ethanol, 2,2'-[[tetrahydro-2-oxido-3-(1-phenylethyl)-2H-1,3,2-oxazaphosphorin-2-yl]imino]bis-, [R-(R\*,S\*)]- (9CI) (CA INDEX NAME)

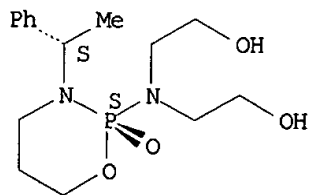
Absolute stereochemistry.



RN 73837-99-7 CAPLUS

CN Ethanol, 2,2'-[[tetrahydro-2-oxido-3-(1-phenylethyl)-2H-1,3,2-oxazaphosphorin-2-yl]imino]bis-, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 33 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1979:557741 Document No. 91:157741 Organophosphorus ring compounds. Rinl,  
 Hansjoerg (Max-Planck-Gesellschaft zur Foerderung der Wissenschaften  
 e.V.,

Fed. Rep. Ger.). Ger. Offen. DE 2752125 19790523, 56 pp. (German).

CODEN: GWXXBX. APPLICATION: DE 1977-2752125 19771122.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2752125	A1	19790523	DE 1977-2752125	19771122
	AT 7808075	A	19820115	AT 1978-8075	19781110
	AT 368166	B	19820927		
	EP 2062	A1	19790530	EP 1978-101389	19781117
	EP 2062	B1	19820505		
	R: BE, CH, FR, GB, LU, NL, SE				
	DK 7805184	A	19790523	DK 1978-5184	19781121
	DK 168385	B1	19940321		
	JP 54081224	A2	19790628	JP 1978-143582	19781122
	AT 8102677	A	19860815	AT 1981-2677	19810616
	AT 382623	B	19870325		

IT 71321-36-3P 71321-37-4P 71321-43-2P

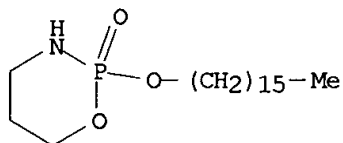
71321-57-8P 71321-58-9P 71321-67-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)

RN 71321-36-3 CAPLUS

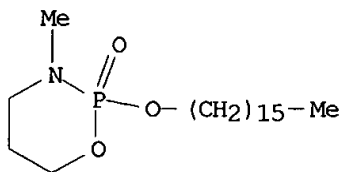
CN 2H-1,3,2-Oxazaphosphorine, 2-(hexadecyloxy)tetrahydro-, 2-oxide (9CI)  
 (CA

INDEX NAME)



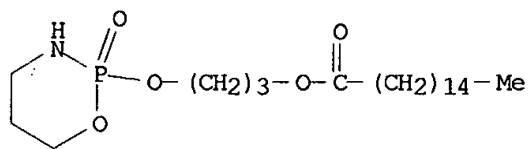
RN 71321-37-4 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, 2-(hexadecyloxy)tetrahydro-3-methyl-, 2-oxide  
 (9CI) (CA INDEX NAME)



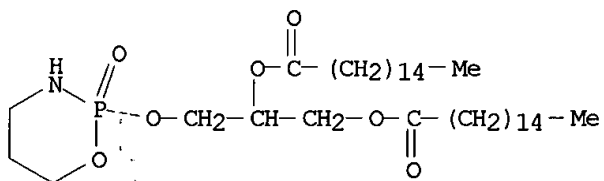
RN 71321-43-2 CAPLUS

CN Hexadecanoic acid, 3-[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)oxy]propyl ester (9CI) (CA INDEX NAME)



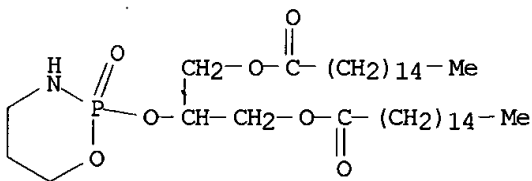
RN 71321-57-8 CAPLUS

CN Hexadecanoic acid, 1-[[ (tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)oxy]methyl]-1,2-ethanediyl ester, (1R)- (9CI) (CA INDEX NAME)



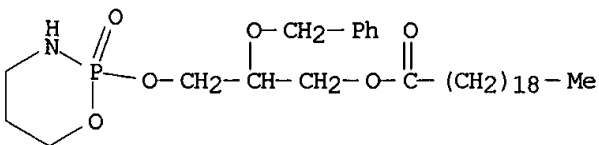
RN 71321-58-9 CAPLUS

CN Hexadecanoic acid, 2-[[ (tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)oxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)



RN 71321-67-0 CAPLUS

CN Eicosanoic acid, 2-(phenylmethoxy)-3-[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)oxy]propyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 34 OF 45 CAPLUS COPYRIGHT 2001 ACS

1977:468492 Document No. 87:68492 Pharmaceutical cis-1,2-epoxypropylphosphonic acid derivatives. De Lassauniere, Chabrier; Nguyen Thanh Thuong; Warolin, Christian Jean Marie (Agence Nationale de Valorisation de la Recherche, Fr.; Societe d'Etudes et d'Applications Biologiques (SAB)). Ger. Offen. DE 2632136 19770224, 66 pp. (German). CODEN: GWXXBX. PRIORITY: GB 1975-29918 19750716.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2632136	A1	19770224	DE 1976-2632136	19760716
	GB 1566252	A	19800430	GB 1975-29918	19750716
	FR 2317936	A1	19770211	FR 1976-20889	19760708

JP 52042821      A2    19770404      JP 1976-84887    19760716  
 US 4129660      A     19781212      US 1977-801921   19770531

IT    **63581-86-2P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
      (prepn. and reaction of, with propenylphosphonic acid)

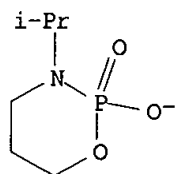
RN    63581-86-2    CAPLUS

CN    Methanaminium, N,N,N-trimethyl-, salt with tetrahydro-2-hydroxy-3-(1-methylethyl)-2H-1,3,2-oxazaphosphorine 2-oxide (1:1) (9CI) (CA INDEX NAME)

CM    1

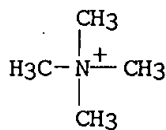
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CRN   63581-85-1  
 CMF   C6 H13 N O3 P



CM    2

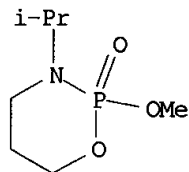
CRN   51-92-3  
 CMF   C4 H12 N



IT    **63581-84-0P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
      (prepn. of)

RN    63581-84-0    CAPLUS

CN    2H-1,3,2-Oxazaphosphorine, tetrahydro-2-methoxy-3-(1-methylethyl)-, 2-oxide (9CI) (CA INDEX NAME)



L8    ANSWER 35 OF 45    CAPLUS    COPYRIGHT 2001 ACS  
 1977:416039    Document No. 87:16039    Ionene polymers for selectively  
 inhibiting  
      the vitro growth of malignant cells.    Rembaum, Alan (California Institute

of Technology, USA). U.S. US 4013507 19770322, 11 pp. (English).

CODEN:

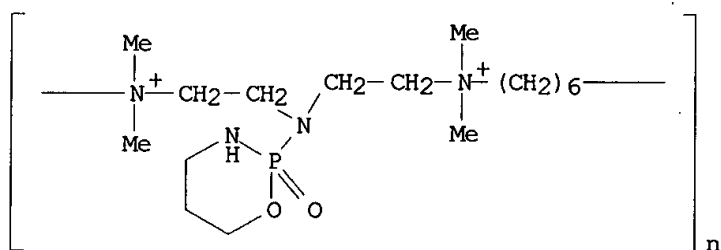
USXXAM. APPLICATION: US 1973-398376 19730918.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4013507	A	19770322	US 1975-547234	19750205
IT	<b>62766-73-8P</b>				

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of, as neoplasm inhibitor)

RN 62766-73-8 CAPLUS

CN Poly[(dimethyliminio)-1,2-ethanediyl[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]-1,2-ethanediyl(dimethyliminio)-1,6-hexanediyl dichloride] (9CI) (CA INDEX NAME)



● 2 Cl<sup>-</sup>

L8 ANSWER 36 OF 45 CAPLUS COPYRIGHT 2001 ACS

1976:463098 Document No. 85:63098 4-Hydroperoxytetrahydro-2H-1,3,2-oxazaphosphorin 2-oxide derivatives. Takamizawa, Akira; Iwata, Tsuoyoshi (Shionogi and Co., Ltd., Japan). Ger. Offen. DE 2552135 19760526, 14 pp. (German). CODEN: GWXXBX. PRIORITY: JP 1974-133257 19741120.

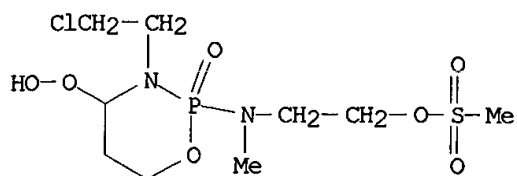
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2552135	A1	19760526	DE 1975-2552135	19751120
	JP 51059886	A2	19760525	JP 1974-133257	19741120
	CA 1051914	A1	19790403	CA 1975-239381	19751107
	SE 7513007	A	19760521	SE 1975-13007	19751119
	FR 2291763	A1	19760618	FR 1975-35387	19751119
	CH 602777	A	19780731	CH 1975-15008	19751119
	NL 7513590	A	19760524	NL 1975-13590	19751120
	AU 7586816	A1	19770526	AU 1975-86816	19751120
	AU 500813	B2	19790531		

IT **60052-94-0P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and immunosuppressant activity of)

RN 60052-94-0 CAPLUS

CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-4-hydroperoxy-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]methylamino]-, 1-methanesulfonate (9CI) (CA INDEX NAME)



L8 ANSWER 37 OF 45 CAPLUS COPYRIGHT 2001 ACS

1974:413758 Document No. 81:13758 Amidocyclothiophosphates. Jastorff, Bernd; Krebs, Traute (Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V.). Ger. Offen. DE 2247782 19740404, 27 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1972-2247782 19720929.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2247782	A1	19740404	DE 1972-2247782	19720929

IT **42029-43-6P 42133-33-5P**

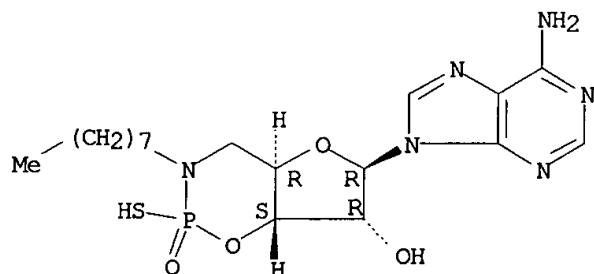
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 42029-43-6 CAPLUS

CN Adenosine, 5'-deoxy-5'-[(hydroxymercaptophosphinyl)octylamino]-, intramol.

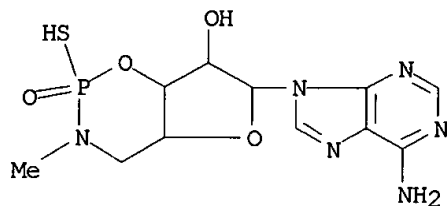
5',3'-ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 42133-33-5 CAPLUS

CN Adenosine, 5'-deoxy-5'-[(hydroxymercaptophosphinyl)methylamino]-, intramol. 5',3'-ester (9CI) (CA INDEX NAME)

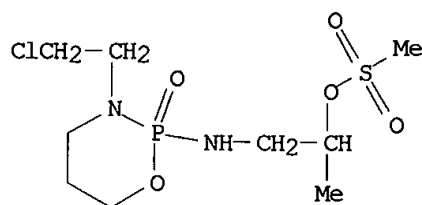


L8 ANSWER 38 OF 45 CAPLUS COPYRIGHT 2001 ACS

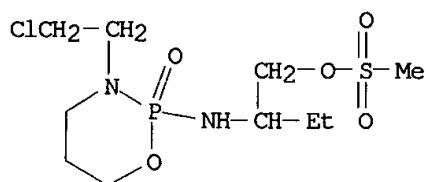
1973:505303 Document No. 79:105303 Immunosuppressive oxazaphosphorine oxides. Arnold, Herbert; Bourseauc, Friedrich; Potel, Juergen; Brock, Norbert (Asta-Werke A.-G. Chemische Fabrik). Ger. Offen. DE 2201675

19730719, 16 pp. Addn. to Ger. Offen. 2,107,936 (CA 77;152238 m).  
(German). CODEN: GWXXBX. APPLICATION: DE 1972-2201675 19720114.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2201675	A1	19730719	DE 1972-2201675	19720114
	CH 581145	A	19761029	CH 1972-1349	19720131
	CH 586230	A	19770331	CH 1975-11836	19720131
	CH 596231	A	19780315	CH 1975-11835	19720131
	US 3828090	A	19740806	US 1972-225273	19720210
	AU 7238914	A1	19730816	AU 1972-38914	19720211
	DD 94812	C	19730112	DD 1972-160930	19720217
	SE 381464	B	19751208	SE 1972-1916	19720217
	BE 779516	A1	19720616	BE 1972-51680	19720218
	NL 7202177	A	19720822	NL 1972-2177	19720218
	NL 170287	B	19820517		
	NL 170287	C	19821018		
	FR 2125595	A1	19720929	FR 1972-5549	19720218
	FR 2125595	A5	19720929		
	FR 2125595	B1	19750314		
	CA 957696	A1	19741112	CA 1972-135044	19720218
	ES 399910	A1	19750616	ES 1972-399910	19720218
	HU 169427	P	19761128	HU 1972-AA698	19720218
	DK 137013	B	19780102	DK 1972-761	19720218
	FI 56387	B	19790928	FI 1972-445	19720218
	FI 56387	C	19800110		
	JP 56020317	B4	19810513	JP 1972-16556	19720218
	GB 1341170	A	19731219	GB 1972-7881	19720221
	US 3910982	A	19751007	US 1974-436173	19740124
	JP 56097293	A2	19810805	JP 1980-152998	19801101
	JP 58043396	B4	19830927		
	JP 56097294	A2	19810805	JP 1980-152999	19801101
	JP 59001716	B4	19840113		
IT	<b>40722-71-2P 40722-72-3P</b>				
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)				
RN	40722-71-2 CAPLUS				
CN	2-Propanol, 1-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)				



RN 40722-72-3 CAPLUS  
CN 1-Butanol, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



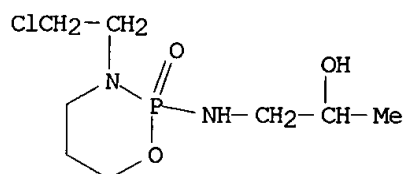
IT 40722-88-1 40722-89-2

RL: RCT (Reactant)

(reaction of, with methanesulfonyl chloride)

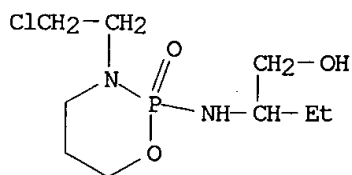
RN 40722-88-1 CAPLUS

CN 2-Propanol, 1-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



RN 40722-89-2 CAPLUS

CN 1-Butanol, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



L8 ANSWER 39 OF 45 CAPLUS COPYRIGHT 2001 ACS

1973:111377 Document No. 78:111377 Alkylsulfonic esters of 1,3,2-oxazaphosphorinones. (Asta-Werke A.-G.). Fr. Demande FR 2125595 19721103, 31 pp. (French). CODEN: FRXXBL. PRIORITY: DE 1971-2107936 19710219.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2125595	A1	19720929	FR 1972-5549	19720218
	FR 2125595	A5	19720929		
	FR 2125595	B1	19750314		
	DE 2107936	A	19720907	DE 1971-2107936	19710219
	DE 2107936	B2	19771020		
	DE 2201675	A1	19730719	DE 1972-2201675	19720114
IT	37752-22-0P 37752-26-4P 37752-27-5P				
	37752-30-0P 37752-31-1P 37752-32-2P				
	37752-35-5P 37752-36-6P 37752-38-8P				
	37752-39-9P 37752-40-2P 37752-41-3P				
	37752-42-4P 37752-43-5P 37752-44-6P				
	37753-09-6P 37753-10-9P 37753-12-1P				
	37753-15-4P 37753-16-5P 40722-39-2P				

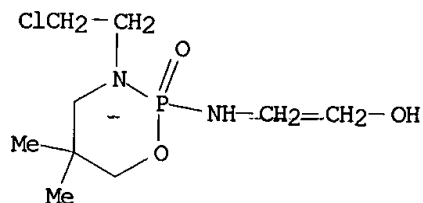


**40722-40-5P 40722-71-2P 40722-72-3P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

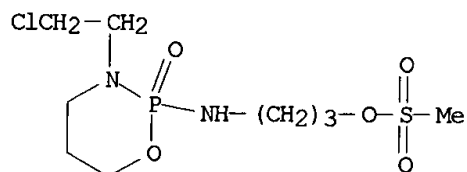
RN 37752-22-0 CAPLUS

CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-5,5-dimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



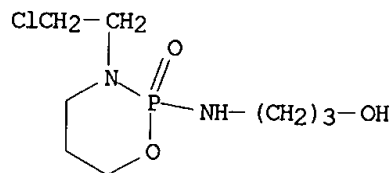
RN 37752-26-4 CAPLUS

CN 1-Propanol, 3-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



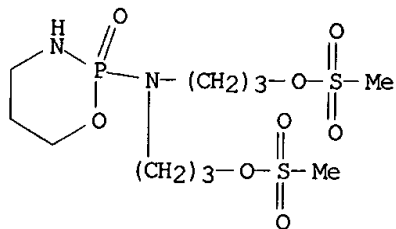
RN 37752-27-5 CAPLUS

CN 1-Propanol, 3-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



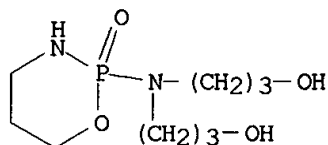
RN 37752-30-0 CAPLUS

CN 1-Propanol, 3,3'-[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]bis-, dimethanesulfonate (ester) (9CI) (CA INDEX NAME)



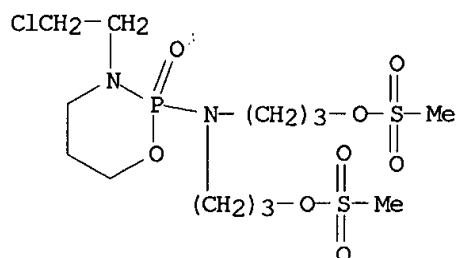
RN 37752-31-1 CAPLUS

CN 1-Propanol, 3,3'-[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]bis- (9CI) (CA INDEX NAME)



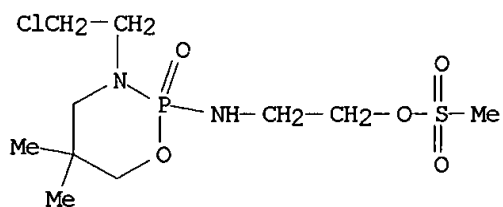
RN 37752-32-2 CAPLUS

CN 1-Propanol, 3,3'-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]imino]bis-, dimethanesulfonate (ester) (9CI) (CA INDEX NAME)



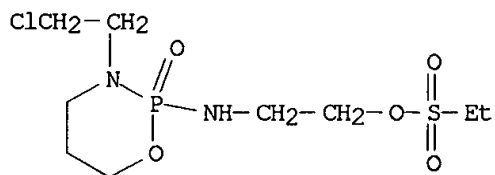
RN 37752-35-5 CAPLUS

CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-5,5-dimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



RN 37752-36-6 CAPLUS

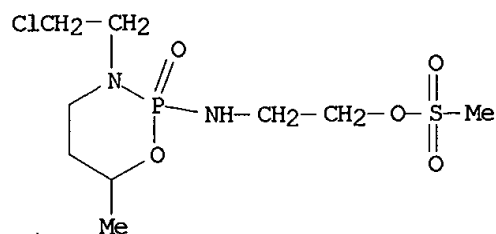
CN Ethanesulfonic acid, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]ethyl ester (9CI) (CA INDEX NAME)



RN 37752-38-8 CAPLUS

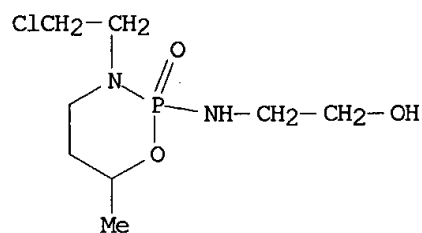
CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-6-methyl-2-oxido-2H-1,3,2-

oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



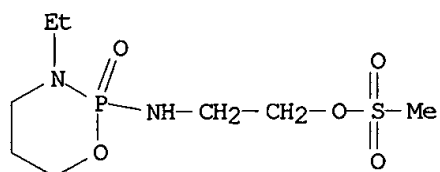
RN 37752-39-9 CAPLUS

CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-6-methyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



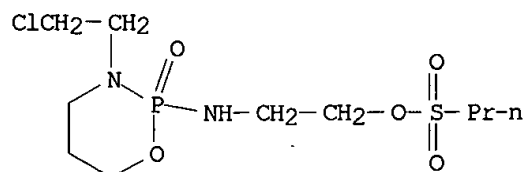
RN 37752-40-2 CAPLUS

CN Ethanol, 2-[[3-ethyltetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



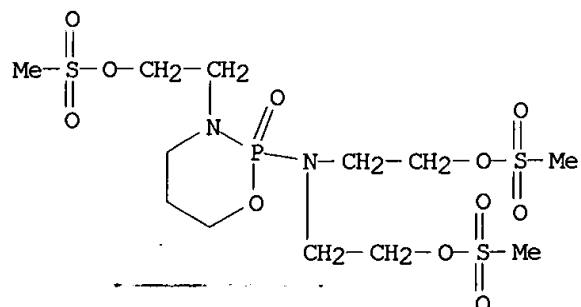
RN 37752-41-3 CAPLUS

CN 1-Propanesulfonic acid, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]ethyl ester (9CI) (CA INDEX NAME)



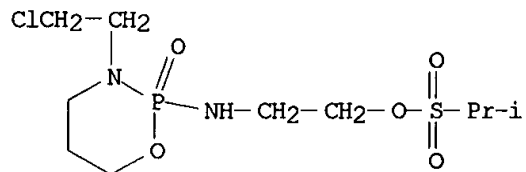
RN 37752-42-4 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-ethanol, 2-[bis[2-(methanesulfonyl)oxy]ethyl]amino]dihydro-, methanesulfonate (ester), 2-oxide (9CI) (CA INDEX NAME)



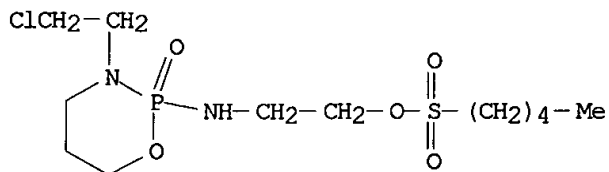
RN 37752-43-5 CAPLUS

CN 2-Propanesulfonic acid, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]ethyl ester (9CI) (CA INDEX NAME)



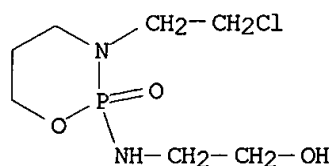
RN 37752-44-6 CAPLUS

CN 1-Pentanesulfonic acid, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]ethyl ester (9CI) (CA INDEX NAME)



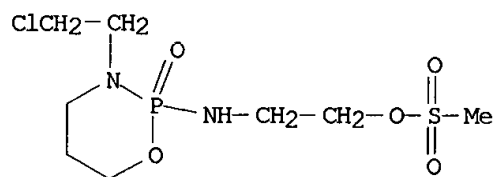
RN 37753-09-6 CAPLUS

CN Ethanol,  
2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



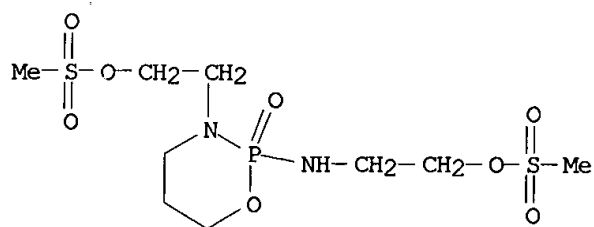
RN 37753-10-9 CAPLUS

CN Ethanol,  
2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



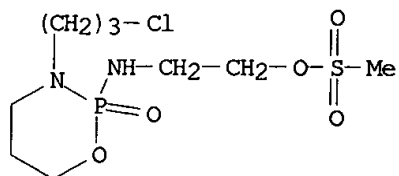
RN 37753-12-1 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine-3(4H)-ethanol, dihydro-2-[[2-[(methylsulfonyl)oxy]ethyl]amino]-, methanesulfonate (ester); 2-oxide (9CI) (CA INDEX NAME)



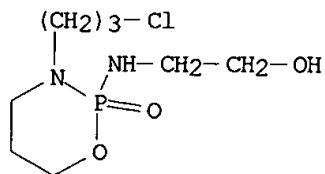
RN 37753-15-4 CAPLUS

CN Ethanol, 2-[[3-(3-chloropropyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



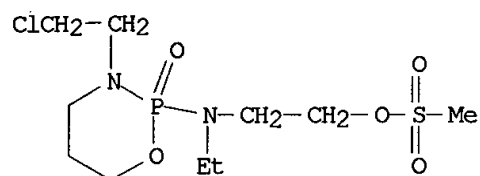
RN 37753-16-5 CAPLUS

CN Ethanol, 2-[[3-(3-chloropropyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



RN 40722-39-2 CAPLUS

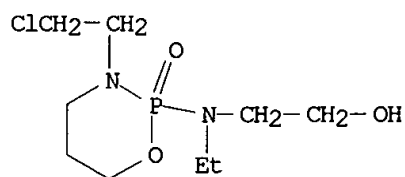
CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]ethyl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



RN 40722-40-5 CAPLUS

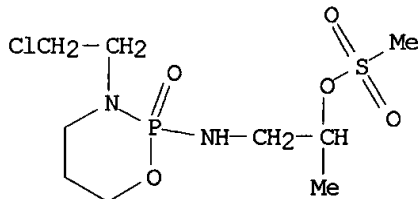
CN Ethanol,

2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]ethylamino]- (9CI) (CA INDEX NAME)



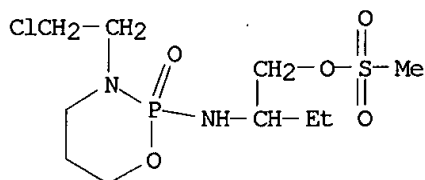
RN 40722-71-2 CAPLUS

CN 2-Propanol, 1-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



RN 40722-72-3 CAPLUS

CN 1-Butanol, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)

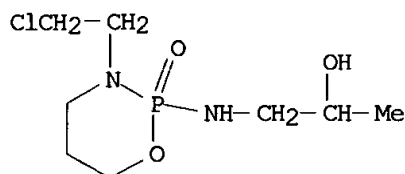


IT 40722-88-1 40722-89-2

RL: RCT (Reactant)  
(sulfonation of)

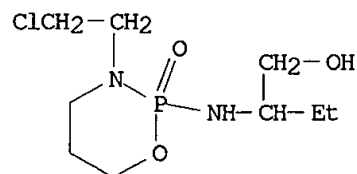
RN 40722-88-1 CAPLUS

CN 2-Propanol, 1-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



RN 40722-89-2 CAPLUS

CN 1-Butanol, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



L8 ANSWER 40 OF 45 CAPLUS COPYRIGHT 2001 ACS

1973:97723 Document No. 78:97723 Pharmaceutical

2-amino-4-hydroperoxy-1-oxa-

3-aza-2-phosphacyclopentane- and-cyclohexane 2-oxides. Takamizawa, Akira;

Iwata, Tsuyoshi (Shionogi and Co., Ltd.). Ger. Offen. DE 2231311 19730111, 1 pp. (German). CODEN: GWXXBX. PRIORITY: JP 1971-47045 19710628.

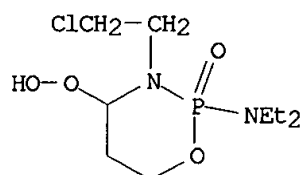
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PI	DE 2231311	A1	19730111	DE 1972-2231311	19720626
	JP 49048554	B4	19741221	JP 1971-47045	19710628
	JP 48034188	A2	19730516	JP 1971-69455	19710908
	JP 52030518	B4	19770809		
	JP 48086870	A2	19731115	JP 1972-19161	19720224
	FR 2147956	A1	19730316	FR 1972-23230	19720627

IT 39800-24-3P 39800-26-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

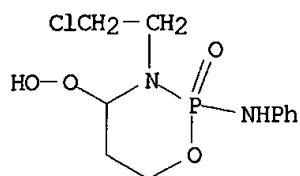
RN 39800-24-3 CAPLUS

CN Hydroperoxide, 3-(2-chloroethyl)-2-(diethylamino)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-4-yl (9CI) (CA INDEX NAME)



RN 39800-26-5 CAPLUS

CN Hydroperoxide, 3-(2-chloroethyl)tetrahydro-2-oxido-2-(phenylamino)-2H-1,3,2-oxazaphosphorin-4-yl (9CI) (CA INDEX NAME)



L8 ANSWER 41 OF 45 CAPLUS COPYRIGHT 2001 ACS

1972:552238 Document No. 77:152238 Tetrahydro-2H-1,3,2-oxazaphosphorine  
 2-oxide-derivatives. Arnold, Herbert; Bourseaux, Friedrich; Potel,  
 Juergen; Brock, Norbert (Asta-Werke A.-G. Chemische Fabrik). Ger. Offen.  
 DE 2107936 19720907, 42 pp. (German). CODEN: GWXXBX. APPLICATION: DE  
 1971-2107936 19710219.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2107936	A	19720907	DE 1971-2107936	19710219
	DE 2107936	B2	19771020		
	CH 581145	A	19761029	CH 1972-1349	19720131
	CH 586230	A	19770331	CH 1975-11836	19720131
	CH 596231	A	19780315	CH 1975-11835	19720131
	ZA 7200740	A	19721025	ZA 1972-740	19720204
	AT 311381	B	19731112	AT 1972-912	19720204
	AT 318652	B	19741111	AT 1972-11102	19720204
	US 3828090	A	19740806	US 1972-225273	19720210
	AU 7238914	A1	19730816	AU 1972-38914	19720211
	CS 167967	P	19760528	CS 1972-965	19720215
	DD 94812	C	19730112	DD 1972-160930	19720217
	SE 381464	B	19751208	SE 1972-1916	19720217
	BE 779516	A1	19720616	BE 1972-51680	19720218
	NL 7202177	A	19720822	NL 1972-2177	19720218
	NL 170287	B	19820517		
	NL 170287	C	19821018		
	FR 2125595	A1	19720929	FR 1972-5549	19720218
	FR 2125595	A5	19720929		
	FR 2125595	B1	19750314		
	CA 957696	A1	19741112	CA 1972-135044	19720218
	SU 453845	D	19741215	SU 1972-1749700	19720218
	SU 461510	D	19750225	SU 1972-1920572	19720218
	ES 399910	A1	19750616	ES 1972-399910	19720218
	HU 169427	P	19761128	HU 1972-AA698	19720218
	DK 137013	B	19780102	DK 1972-761	19720218
	FI 56387	B	19790928	FI 1972-445	19720218
	FI 56387	C	19800110		
	JP 56020317	B4	19810513	JP 1972-16556	19720218
	GB 1341170	A	19731219	GB 1972-7881	19720221
	SU 518137	D	19760615	SU 1973-1920105	19730516
	US 3910982	A	19751007	US 1974-436173	19740124
	JP 56097293	A2	19810805	JP 1980-152998	19801101
	JP 58043396	B4	19830927		
	JP 56097294	A2	19810805	JP 1980-152999	19801101
	JP 59001716	B4	19840113		
IT	37752-22-0P	37752-26-4P	37752-27-5P		
	37752-30-0P	37752-31-1P	37752-32-2P		
	37752-35-5P	37752-36-6P	37752-38-8P		
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	37752-42-4P	37752-43-5P	37752-44-6P		



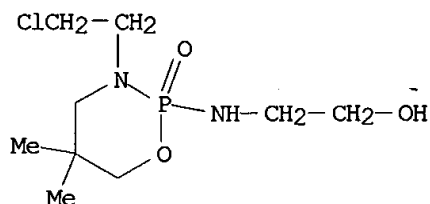
37753-09-6P 37753-10-9P 37753-12-1P

37753-15-4P 37753-16-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

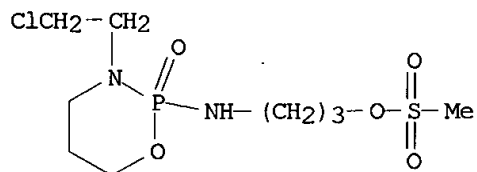
RN 37752-22-0 CAPLUS

CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-5,5-dimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



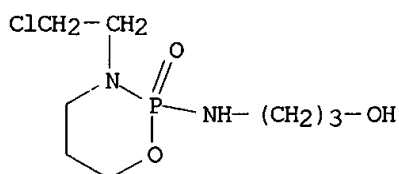
RN 37752-26-4 CAPLUS

CN 1-Propanol, 3-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



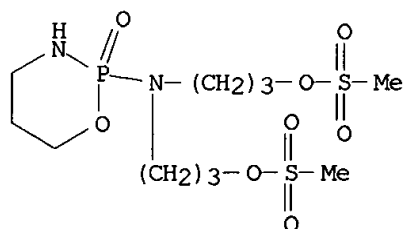
RN 37752-27-5 CAPLUS

CN 1-Propanol, 3-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)

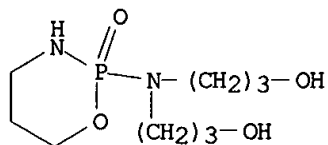


RN 37752-30-0 CAPLUS

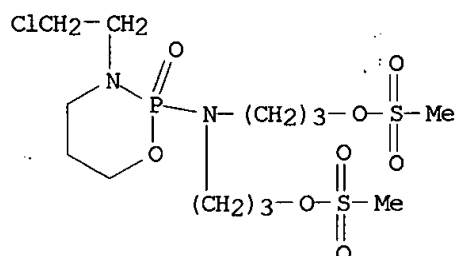
CN 1-Propanol, 3,3'-[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]bis-, dimethanesulfonate (ester) (9CI) (CA INDEX NAME)



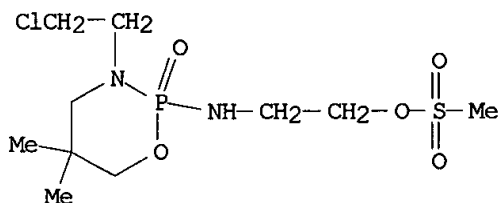
RN 37752-31-1 CAPLUS  
 CN 1-Propanol, 3,3'-[(tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)imino]bis- (9CI) (CA INDEX NAME)



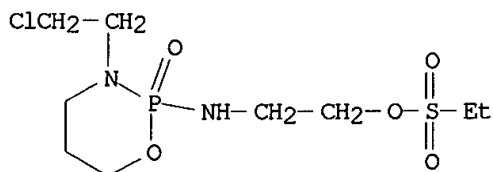
RN 37752-32-2 CAPLUS  
 CN 1-Propanol, 3,3'-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]imino]bis-, dimethanesulfonate (ester) (9CI) (CA INDEX NAME)



RN 37752-35-5 CAPLUS  
 CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-5,5-dimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)

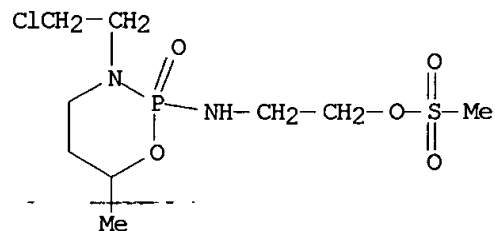


RN 37752-36-6 CAPLUS  
 CN Ethanesulfonic acid, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]ethyl ester (9CI) (CA INDEX NAME)



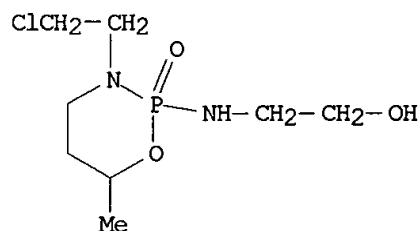
RN 37752-38-8 CAPLUS

CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-6-methyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



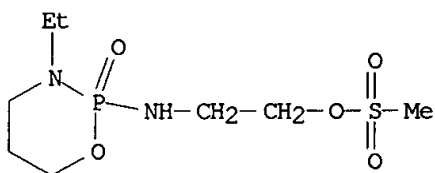
RN 37752-39-9 CAPLUS

CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-6-methyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



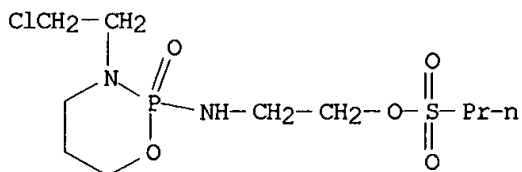
RN 37752-40-2 CAPLUS

CN Ethanol, 2-[(3-ethyltetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



RN 37752-41-3 CAPLUS

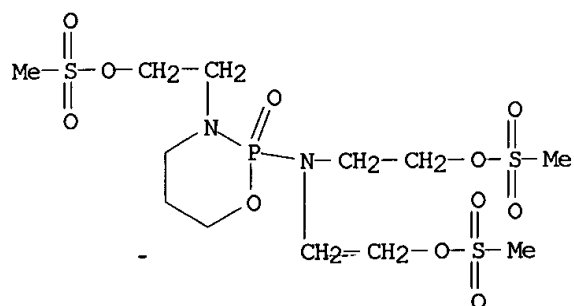
CN 1-Propanesulfonic acid, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]ethyl ester (9CI) (CA INDEX NAME)



RN 37752-42-4 CAPLUS

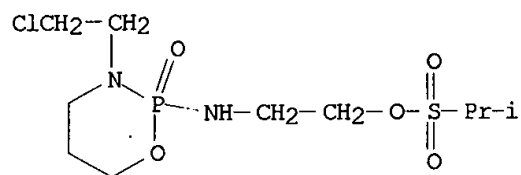
CN 2H-1,3,2-Oxazaphosphorine-3(4H)-ethanol, 2-[bis[2-[(methanesulfonyl)oxy]ethyl]amino]dihydro-, methanesulfonate (ester),

2-oxide (9CI) (CA INDEX NAME)



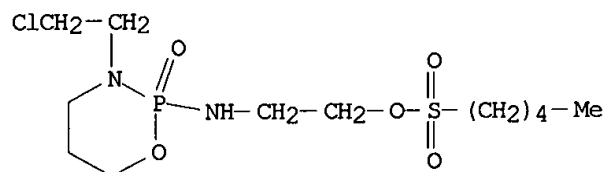
RN 37752-43-5 CAPLUS

CN 2-Propanesulfonic acid, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]ethyl ester (9CI) (CA INDEX NAME)



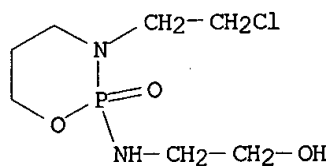
RN 37752-44-6 CAPLUS

CN 1-Pentanesulfonic acid, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]ethyl ester (9CI) (CA INDEX NAME)



RN 37753-09-6 CAPLUS

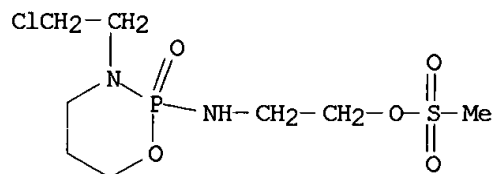
CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



RN 37753-10-9 CAPLUS

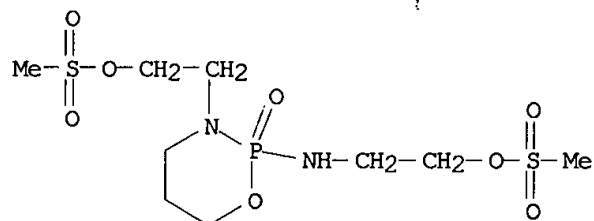
CN Ethanol, 2-[[3-(2-chloroethyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-

2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



RN 37753-12-1 CAPLUS

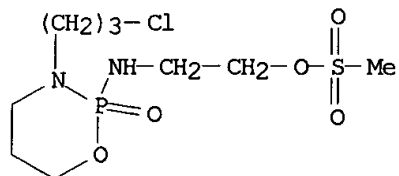
CN 2H-1,3,2-Oxazaphosphorine-3(4H)-ethanol, dihydro-2-[[2-[(methylsulfonyl)oxy]ethyl]amino]-, methanesulfonate (ester), 2-oxide (9CI) (CA INDEX NAME)



RN 37753-15-4 CAPLUS

CN Ethanol,

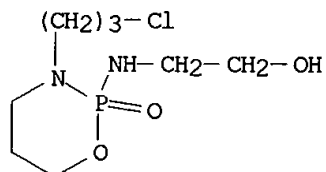
2-[[3-(3-chloropropyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



RN 37753-16-5 CAPLUS

CN Ethanol,

2-[[3-(3-chloropropyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]amino]- (9CI) (CA INDEX NAME)



L8 ANSWER 42 OF 45 CAPLUS COPYRIGHT 2001 ACS

1972:99996 Document No. 76:99996 N,O-[5'-Deoxynucleosyl-(5'-3')]cyclophosphoramidates. Murayama, Akira; Hettler, Hans; Jastorff,

Bernd (Merck Patent G.m.b.H.). Ger. Offen. DE 2032436 19720113, 18 pp.  
(German). CODEN: GWXXBX. APPLICATION: DE 1970-2032436 19700701.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2032436	A	19720113	DE 1970-2032436	19700701
	GB 1300196	A	19721220	GB 1971-1300196	19710608
	IL 37008	A1	19740910	IL 1971-37008	19710609
	FR 2100848	A1	19720324	FR 1971-23670	19710629
	FR 2100848	A5	19720324		
	AT 300834	B	19720810	AT 1971-5672	19710630
	CH 545816	A	19740215	CH 1971-9602	19710630
	ES 392757	A1	19740501	ES 1971-392757	19710630
	SE 372947	B	19750120	SE 1971-8469	19710630
	NL 7109102	A	19720104	NL 1971-9102	19710701
	US 3846401	A	19741105	US 1971-159001	19710701

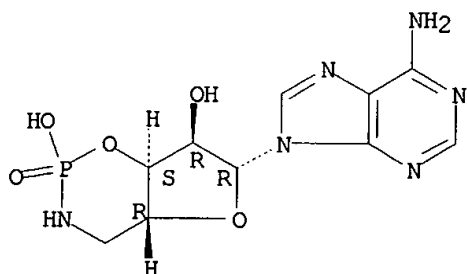
IT 29845-61-2P 29845-65-6P 30765-20-9P  
35901-38-3P 35901-40-7P 35908-19-1P  
35908-20-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 29845-61-2 CAPLUS

CN 2H-Furo[2,3-e]-1,3,2-oxazaphosphorin-7-ol, 6-(6-amino-9H-purin-9-yl)hexahydro-2-hydroxy-, 2-oxide,  
[4aR-(4a.alpha.,6.beta.,7.alpha.,7a.beta.  
.)]- (9CI) (CA INDEX NAME)

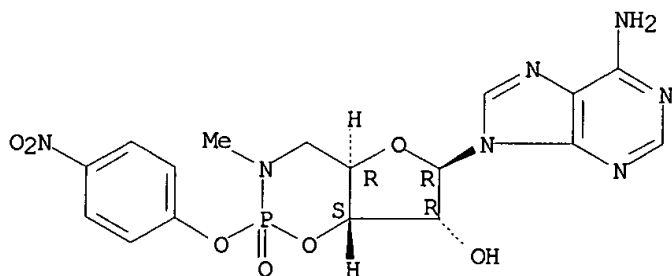
Absolute stereochemistry.



RN 29845-65-6 CAPLUS

CN Adenosine, 5'-deoxy-5'-[[hydroxy(4-nitrophenoxy)phosphinyl]methylamino]-,  
intramol. 5',3'-ester (9CI) (CA INDEX NAME)

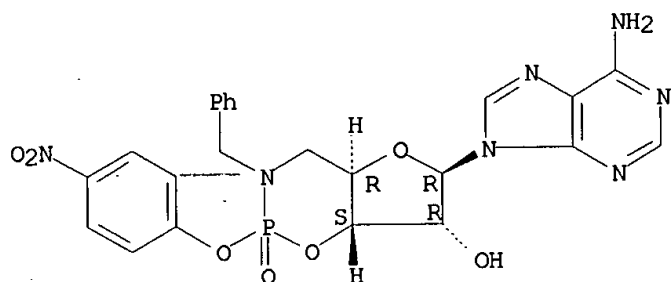
Absolute stereochemistry.



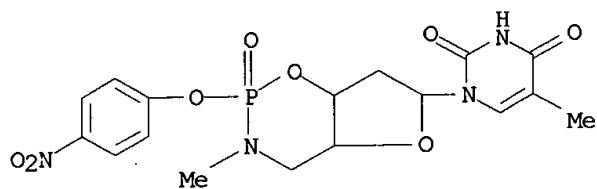
RN 30765-20-9 CAPLUS

CN Adenosine,  
 5'-deoxy-5'-[[hydroxy(4-nitrophenoxy)phosphinyl](phenylmethyl)amino]-, intramol. 5',3'-ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

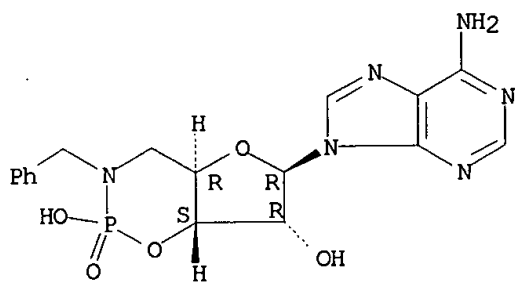


RN 35901-38-3 CAPLUS  
 CN Thymidine, 5'-deoxy-5'-[[hydroxy(4-nitrophenoxy)phosphinyl]methylamino]-, intramol. 5',3'-ester (9CI) (CA INDEX NAME)



RN 35901-40-7 CAPLUS  
 CN Adenosine, 5'-deoxy-5'-[(phenylmethyl)phosphonoamino]-, intramol. 5',3'-ester, sodium salt (9CI) (CA INDEX NAME)

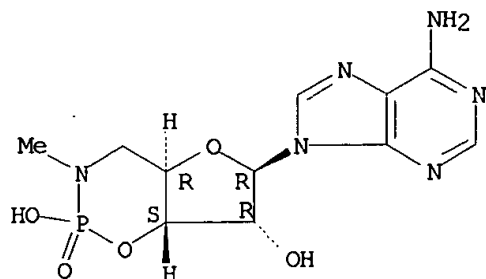
Absolute stereochemistry.



●x Na

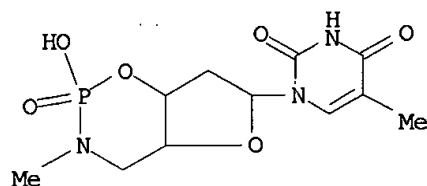
RN 35908-19-1 CAPLUS  
 CN Adenosine, 5'-deoxy-5'-(methylphosphonoamino)-, intramol. 5',3'-ester, sodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



●x Na

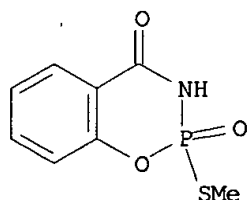
RN 35908-20-4 CAPLUS  
 CN Thymidine, 5'-deoxy-5'-(methylphosphonoamino)-, intramol. 5',3'-ester  
 (9CI) (CA INDEX NAME)



L8 ANSWER 43 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1971:448720 Document No. 75:48720 Salicylamide cyclic phosphates.  
 Kobayashi, Ken; Wakamori, Teruaki (Kumiai Chemical Industry Co., Ltd.).  
 Japan. JP 46018755 B4 19710525 Showa, 3 pp. (Japanese). CODEN: JAXXAD.  
 APPLICATION: JP 19680515.  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 46018755	B4	19710525	JP	19680515

 PI JP 46018755 B4 19710525 JP 19680515  
 IT **32941-85-8P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 32941-85-8 CAPLUS  
 CN 4H-1,3,2-Benzoxazaphosphorin-4-one, 2,3-dihydro-2-(methylthio)-, 2-oxide  
 (8CI) (CA INDEX NAME)

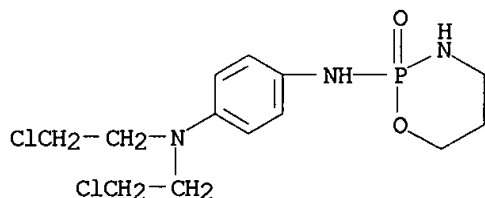


L8 ANSWER 44 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1971:22898 Document No. 74:22898 2-[Bis(2-chloroethyl)aminophenyl-4-amino]tetrahydro-2H-1,3,2-oxazaphosphorine 2-oxide, for treatment of



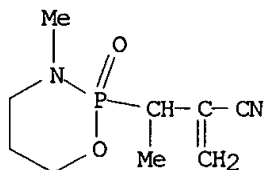
malignant tumors. Sandrin, Edmond; Guttman, Stephan (Sandoz Ltd.).  
 Swiss CH 492738 19700814, 2 pp. (German). CODEN: SWXXAS. APPLICATION:  
 CH 19670913.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CH 492738	A	19700630	CH 1967-492738	19670913
IT	<b>30125-66-7P</b>				
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)				
RN	30125-66-7 CAPLUS				
CN	2H-1,3,2-Oxazaphosphorine, 2-[p-[bis(2-chloroethyl)amino]anilino]-3,4,5,6- tetrahydro-, 2-oxide (8CI) (CA INDEX NAME)				



L8 ANSWER 45 OF 45 CAPLUS COPYRIGHT 2001 ACS  
 1970:466728 Document No. 73:66728 .alpha.-(Phosphinylmethyl)acrylic  
 compounds. Morita, Kenichi; Miyaji, Hiroshi (Toray Industries, Inc.).  
 Japan. JP 45017164 B4 19700613 Showa, 5 pp. (Japanese). CODEN: JAXXAD.  
 APPLICATION: JP 19671117.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 45017164	B4	19700613	JP	19671117
IT	<b>27524-81-8P</b>				
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)				
RN	27524-81-8 CAPLUS				
CN	2H-1,3,2-Oxazaphosphorine-2-propionitrile, tetrahydro-.beta.,3-dimethyl- .alpha.-methylene-, 2-oxide (8CI) (CA INDEX NAME)				



=> d his

(FILE 'HOME' ENTERED AT 16:42:04 ON 16 AUG 2001)

FILE 'REGISTRY' ENTERED AT 16:42:15 ON 16 AUG 2001

L1 STRUCTURE UPLOADED  
 L2 50 S L1  
 L3 1955 S L1 SSS FULL

L4                   STRUCTURE UPLOADED  
L5                   957 S L4 SSS FULL   SUB=L3  
L6                   998 S L3 NOT L5

FILE 'CAPLUS' ENTERED AT 16:47:40 ON 16 AUG 2001  
L7                   370 S L6  
L8                   45 S L7 AND P/DT

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                  8159 PRODRUG?  
L9                   5 L7 AND PRODRUG?

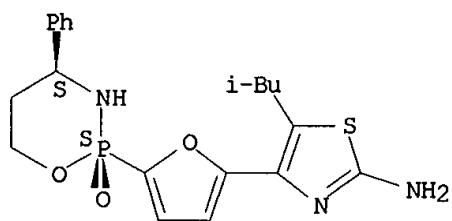
=> d-1-5 cbib pi hitstr abs

L9    ANSWER 1 OF 5   CAPLUS   COPYRIGHT 2001 ACS  
2000:628142   Document No. 133:213194   Novel phosphorus-containing  
          **prodrugs**. Erion, Mark D.; Reddy, K. Raja; Boyer, Serge H.  
          (Metabasis Therapeutics, Inc., USA). PCT Int. Appl. WO 2000052015 A2  
          20000908, 202 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB,  
          BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE,  
          GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
          LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
          SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,  
          BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY,  
          DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE,  
          SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-US5672  
          20000303. PRIORITY: US 1999-PV123013 19990305; US 1999-PV153127  
19990908.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000052015	A2	20000908	WO 2000-US5672	20000303
	WO 2000052015	A3	20010215		
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	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

IT    **261370-70-1P 290362-15-1P 290362-16-2P**  
      RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic  
      preparation); THU (Therapeutic use); BIOL (Biological study); PREP  
      (Preparation); USES (Uses)  
          (phosphoramidate **prodrugs**)  
RN    261370-70-1   CAPLUS  
CN    2-Thiazolamine, 5-(2-methylpropyl)-4-[5-[(2R,4R)-tetrahydro-2-oxido-4-  
      phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX  
      NAME)

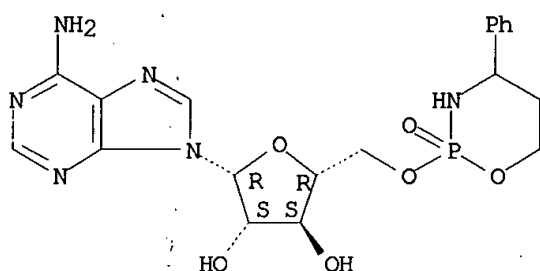
Relative stereochemistry.



RN 290362-15-1 CAPLUS

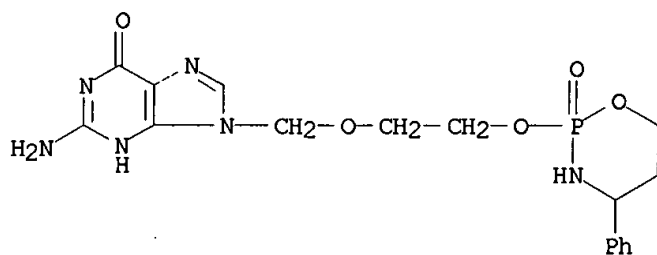
CN 9H-Purin-6-amine, 9-[5-O-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-.beta.-D-arabinofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 290362-16-2 CAPLUS

CN 6H-Purin-6-one, 2-amino-1,9-dihydro-9-[[2-[(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)oxy]ethoxy]methyl]- (9CI) (CA INDEX NAME)

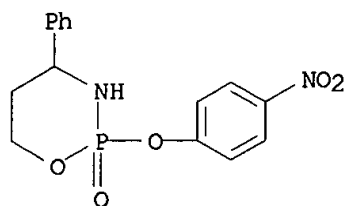


IT 290362-20-8P 290362-25-3P

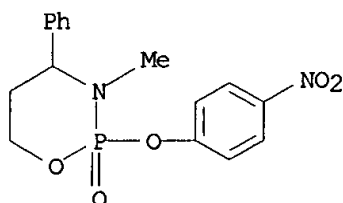
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(phosphoramidate **prodrugs**)

RN 290362-20-8 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, tetrahydro-2-(4-nitrophenoxy)-4-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



RN 290362-25-3 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-3-methyl-2-(4-nitrophenoxy)-4-phenyl-  
 , 2-oxide (9CI) (CA INDEX NAME)

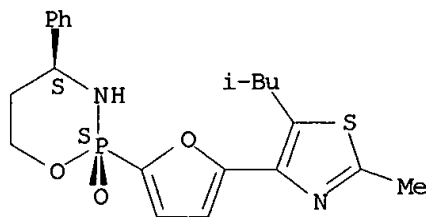


IT 261370-68-7P 261370-69-8P 261370-71-2P  
 261370-73-4P 261370-74-5P 261370-76-7P  
 280781-83-1P 290362-12-8P 290362-13-9P  
 290362-14-0P 290362-17-3P 290362-18-4P  
 290362-19-5P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (phosphoramidate **prodrugs**)

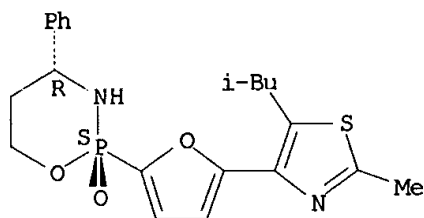
RN 261370-68-7 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-  
 thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide, (2R,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 261370-69-8 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-  
 thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide, (2R,4S)-rel- (9CI) (CA INDEX NAME)

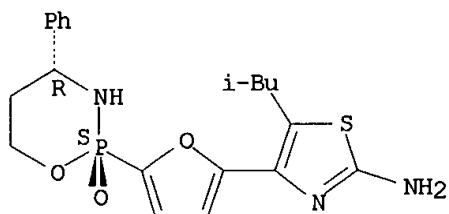
Relative stereochemistry.



RN 261370-71-2 CAPLUS

CN 2-Thiazolamine, 5-(2-methylpropyl)-4-[5-[(2R,4S)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

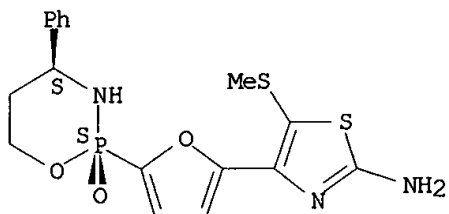
Relative stereochemistry.



RN 261370-73-4 CAPLUS

CN 2-Thiazolamine, 5-(methylthio)-4-[5-[(2R,4R)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

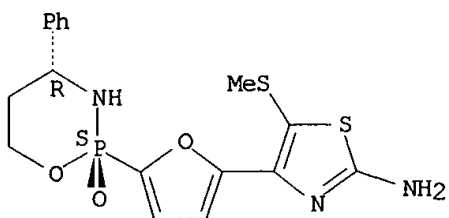
Relative stereochemistry.



RN 261370-74-5 CAPLUS

CN 2-Thiazolamine, 5-(methylthio)-4-[5-[(2R,4S)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

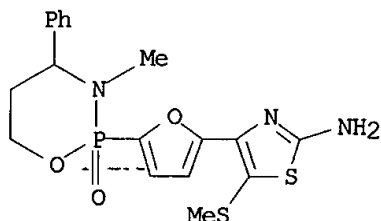
Relative stereochemistry.



RN 261370-76-7 CAPLUS

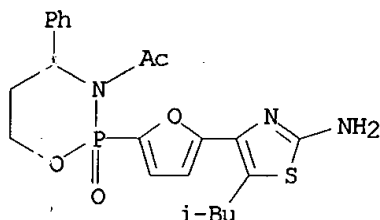
CN 2-Thiazolamine,

5-(methylthio)-4-[5-(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]- (9CI) (CA INDEX NAME)



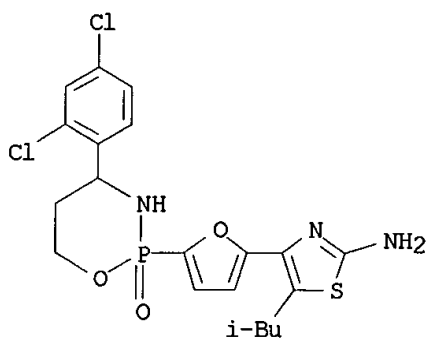
RN 280781-83-1 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, 3-acetyl-2-[5-[2-amino-5-(2-methylpropyl)-4-thiazolyl]-2-furanyl]tetrahydro-4-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



RN 290362-12-8 CAPLUS

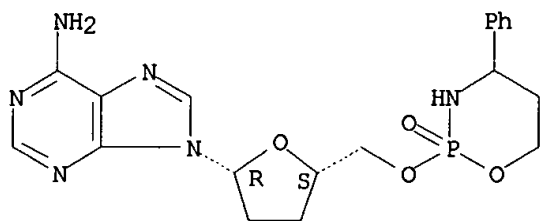
CN 2-Thiazolamine, 4-[5-[4-(2,4-dichlorophenyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-5-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 290362-13-9 CAPLUS

CN Adenosine, 2',3'-dideoxy-5'-O-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)- (9CI) (CA INDEX NAME)

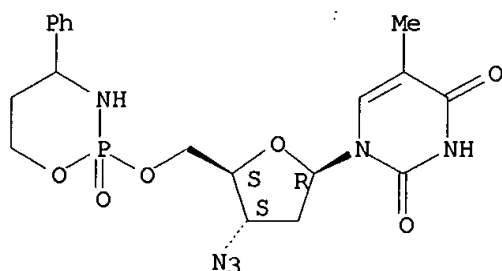
Absolute stereochemistry.



RN 290362-14-0 CAPLUS

CN Thymidine, 3'-azido-3'-deoxy-5'-O-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)- (9CI) (CA INDEX NAME)

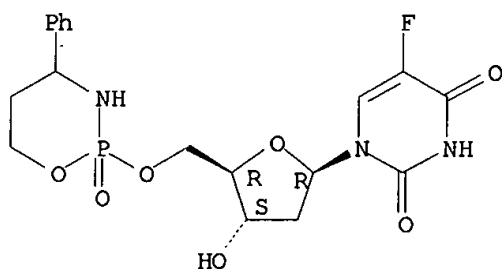
Absolute stereochemistry.



RN 290362-17-3 CAPLUS

CN Uridine, 2'-deoxy-5-fluoro-5'-O-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)- (9CI) (CA INDEX NAME)

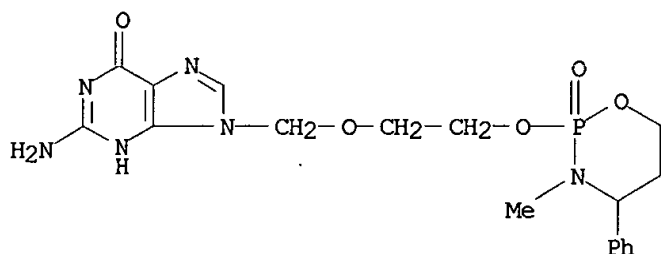
Absolute stereochemistry.



RN 290362-18-4 CAPLUS

CN 6H-Purin-6-one,

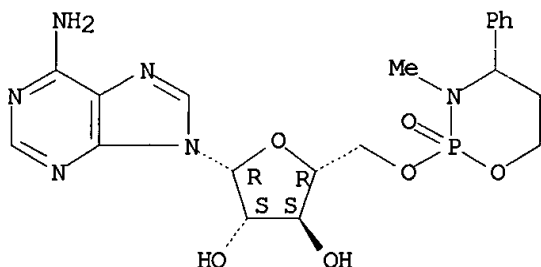
2-amino-1,9-dihydro-9-[[2-[(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)oxy]ethoxy)methyl]- (9CI) (CA INDEX NAME)



RN 290362-19-5 CAPLUS

CN 9H-Purin-6-amine, 9-[5-O-(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-.beta.-D-arabinofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Novel cyclic phosphoramidate **prodrugs** of drugs are prepd. for delivery to the liver and in enhancing oral bioavailability. An example compd. prepd. was 5-isobutyl-2-methyl-4-[2-[5-(1-phenyl-1,3-propanediyl)phosphorimido]furanyl]thiazole. Other examples include activation of phosphoramidate **prodrugs** by human microsomes and the identification and tissue distribution of the microsomal enzymes involved in activation.

L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2001 ACS

2000:456867 Document No. 133:84284 A combination of fructose-1,6-bisphosphatase (FBPase) inhibitors and insulin sensitizers for the treatment of diabetes. Erion, Mark D.; Vanpoelje, Paul (Metabasis Therapeutics, Inc., USA). PCT Int. Appl. WO 2000038666 A2 20000706, 306 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-US30713 19991222. PRIORITY: US 1998-PV114718 19981224.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000038666	A2	20000706	WO 1999-US30713	19991222
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RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

IT 261370-76-7P 261370-79-0P 261370-80-3P

280781-78-4DP, isomers 280781-79-5DP, isomers

280781-81-9DP, isomers 280781-83-1P

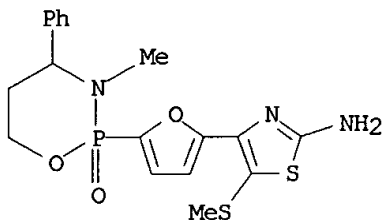
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(fructose-1,6-bisphosphatase inhibitor-insulin sensitizer combination for diabetes treatment, and inhibitor prepn.)

RN 261370-76-7 CAPLUS

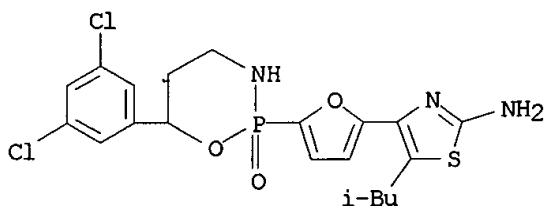
CN 2-Thiazolamine,

5-(methylthio)-4-[5-(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]- (9CI) (CA INDEX NAME)



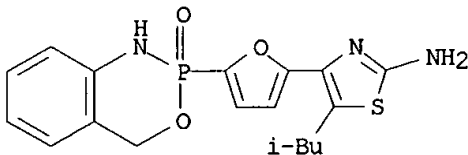
RN 261370-79-0 CAPLUS

CN 2-Thiazolamine, 4-[5-[6-(3,5-dichlorophenyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-5-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 261370-80-3 CAPLUS

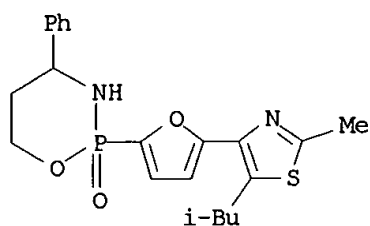
CN 2-Thiazolamine, 4-[5-(1,4-dihydro-2-oxido-2H-3,1,2-benzoxazaphosphorin-2-yl)-2-furanyl]-5-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 280781-78-4 CAPLUS

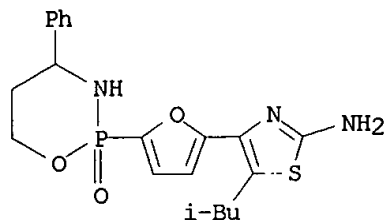
CN 2H-1,3,2-Oxazaphosphorine, tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-

thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



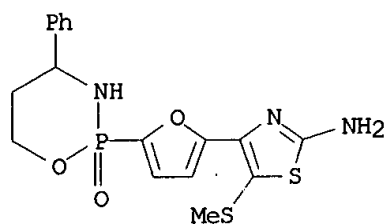
RN 280781-79-5 CAPLUS

CN 2-Thiazolamine, 5-(2-methylpropyl)-4-[5-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]- (9CI) (CA INDEX NAME)



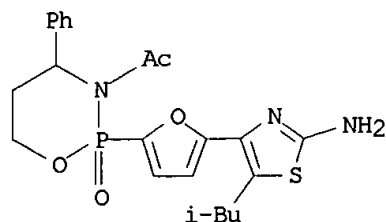
RN 280781-81-9 CAPLUS

CN 2-Thiazolamine, 5-(methylthio)-4-[5-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]- (9CI) (CA INDEX NAME)



RN 280781-83-1 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, 3-acetyl-2-[5-[2-amino-5-(2-methylpropyl)-4-thiazolyl]-2-furanyl]tetrahydro-4-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



AB Pharmaceutical compns. contg. an FB Pase inhibitor and an insulin sensitizer are provided as well as methods for treating diabetes and diseases responding to increased glycemic control, an improvement in insulin sensitivity, a redn. in insulin levels, or an enhancement of insulin secretion.

L9 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS

2000:175817 Document No. 132:222529 Preparation of heteroaromatic phosphonates as fructose 1,6-bisphosphatase inhibitors. Dang, Qun; Kasibhatla, Srinivas Rao; Reddy, K. Raja; Erion, Mark D.; Reddy, M. Rami; Agarwal, Atul (Metabasis Therapeutics, Inc., USA). PCT Int. Appl. WO 2000014095 A1 20000316, 338 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-US20346 19990903. PRIORITY: US 1998-135504 19980909; US 1998-111077 19981207.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000014095	A1	20000316	WO 1999-US20346	19990903
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RW:			GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
EP 1112275	A1	20010704	EP 1999-954595	19990903
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NO 2001001174	A	20010509	NO 2001-1174	20010307

IT 261370-67-6P 261370-68-7P 261370-69-8P  
261370-70-1P 261370-71-2P 261370-72-3P  
261370-73-4P 261370-74-5P 261370-75-6P  
261370-76-7P 261370-77-8P 261370-79-0P  
261370-80-3P

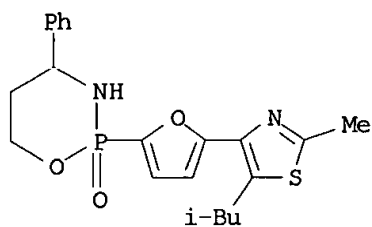
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(target compd.; prepn. of heteroarom. phosphonates as fructose 1,6-bisphosphatase inhibitors via high throughput and std. synthetic methods)

RN 261370-67-6 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine,

tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-

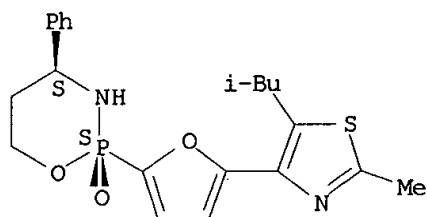
thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

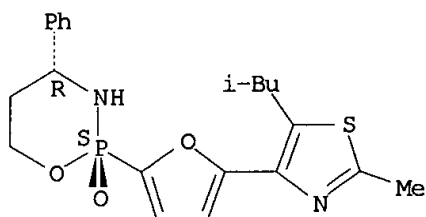
RN 261370-68-7 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-  
 thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide, (2R,4R)-rel- (9CI) (CA INDEX  
 NAME)

Relative stereochemistry.



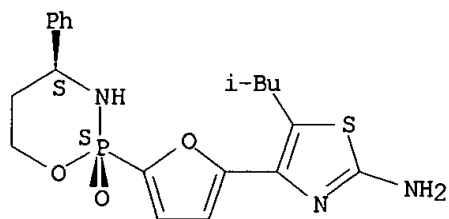
RN 261370-69-8 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorine,  
 tetrahydro-2-[5-[2-methyl-5-(2-methylpropyl)-4-  
 thiazolyl]-2-furanyl]-4-phenyl-, 2-oxide, (2R,4S)-rel- (9CI) (CA INDEX  
 NAME)

Relative stereochemistry.



RN 261370-70-1 CAPLUS  
 CN 2-Thiazolamine, 5-(2-methylpropyl)-4-[5-[(2R,4R)-tetrahydro-2-oxido-4-  
 phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX  
 NAME)

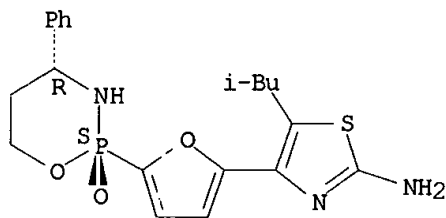
Relative stereochemistry.



RN 261370-71-2 CAPLUS

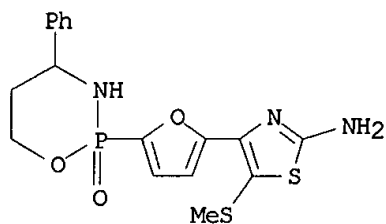
CN 2-Thiazolamine, 5-(2-methylpropyl)-4-[5-[(2R,4S)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 261370-72-3 CAPLUS

CN 2-Thiazolamine, 5-(methylthio)-4-[5-(tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]-, monohydrochloride (9CI) (CA INDEX NAME)

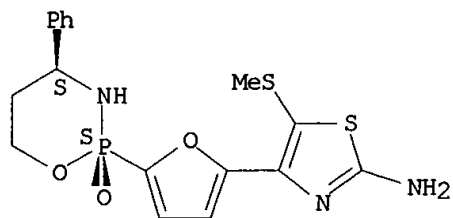


● HCl

RN 261370-73-4 CAPLUS

CN 2-Thiazolamine, 5-(methylthio)-4-[5-[(2R,4R)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

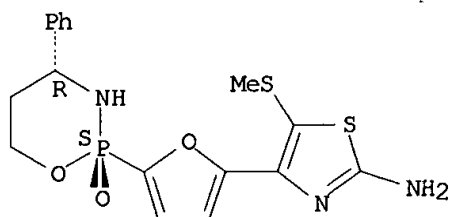
Relative stereochemistry.



RN 261370-74-5 CAPLUS

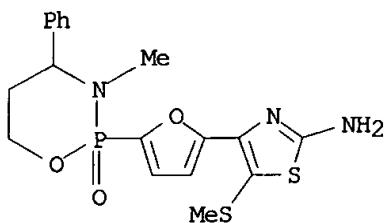
CN 2-Thiazolamine, 5-(methylthio)-4-[5-[(2R,4S)-tetrahydro-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 261370-75-6 CAPLUS

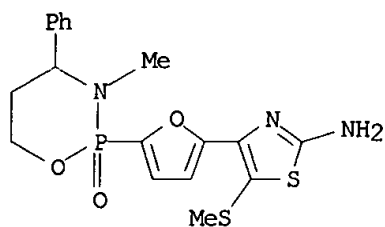
CN 2-Thiazolamine, 5-(methylthio)-4-[5-(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

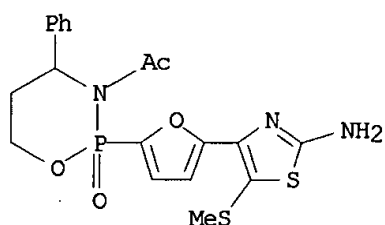
RN 261370-76-7 CAPLUS

CN 2-Thiazolamine, 5-(methylthio)-4-[5-(tetrahydro-3-methyl-2-oxido-4-phenyl-2H-1,3,2-oxazaphosphorin-2-yl)-2-furanyl]- (9CI) (CA INDEX NAME)



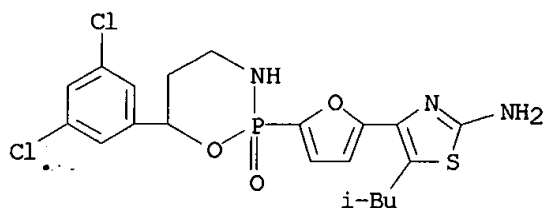
RN 261370-77-8 CAPLUS

CN 2H-1,3,2-Oxazaphosphorine, 3-acetyl-2-[5-[2-amino-5-(methylthio)-4-methylthiazolyl]-2-furanyl]tetrahydro-4-phenyl-, 2-oxide (9CI) (CA INDEX NAME)



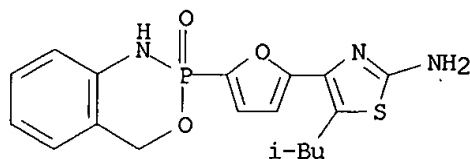
RN 261370-79-0 CAPLUS

CN 2-Thiazolamine, 4-[5-[6-(3,5-dichlorophenyl)tetrahydro-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl]-2-furanyl]-5-(2-methylpropyl)- (9CI) (CA INDEX NAME)

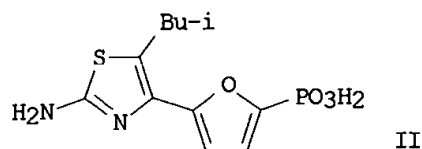


RN 261370-80-3 CAPLUS

CN 2-Thiazolamine, 4-[5-(1,4-dihydro-2-oxido-2H-3,1,2-benzoxazaphosphorin-2-yl)-2-furanyl]-5-(2-methylpropyl)- (9CI) (CA INDEX NAME)



GI



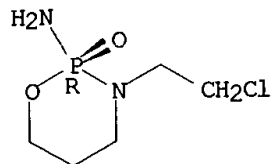
AB The title compds. R5XP(O)(YR1)2 [I; wherein X = (un)substituted (cyclic) linking group between R5 and P via 1-4 atoms, including 0-1 N, O, or S atoms; or X = urea or carbamate; Y = independently O or NR6; when Y = O, R1 = H, alkyl, (un)substituted (alkyl)aryl or alicyclic, C(R2)2OC(O)NR22; NR2C(O)R3, C(R2)2OC(O)R3, etc.; when Y = NR6, R1 = H, [C(R2)2]qC(O)OR3, C(R4)2C(O)OR3, [C(R2)2]qC(O)SR3, cycloalkylene-C(O)OR3, etc.; R2 = H or R3; R3 = (ar)alkyl, aryl, or alicyclic; R4 = H, alkyl, etc.; R5 = (un)substituted benzothiazolyl, benzoxazolyl, thiazolyl, (is)oxazolyl, imidazolyl, pyrazolyl, tetrazolyl, pyridyl, pyrimidinyl, pyrazinyl, etc.; R6 = H, (acyloxy)alkyl, alkoxycarbonyloxyalkyl, or acyl; q = 1-2], and their **prodrugs**, were prepd. via high throughput and std. synthetic methods. I and their **prodrugs** were tested for a variety of biol. activities including inhibition of fructose 1,6-bisphosphatase (FBPase) and activity toward AMP binding enzymes, such as adenosine kinase. Compds. of the invention are useful in the treatment of diabetes and other diseases where inhibition of gluconeogenesis, control of blood glucose levels, redn. in glycogen storage, or redn. in insulin levels is beneficial. Thus, the phosphonofuranylthiazole (II) was prepd. and tested for inhibition of human liver FBTase (IC50 = 0.025 .mu.M), inhibition of gluconeogenesis (IC50 = 2.5 .mu.M), and blood glucose lowering (65% i.v.).

L9 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS  
 1999:710255 Document No. 132:30271 Stereoselective metabolism of ifosfamide by human P-450S 3A4 and 2B6. Favorable metabolic properties of R-enantiomer. Roy, Partha; Tretyakov, Olga; Wright, Joel; Waxman, David J. (Division of Cell and Molecular Biology, Department of Biology, Boston University, Boston, MA, USA). Drug Metab. Dispos., 27(11), 1309-1318 (English) 1999. CODEN: DMDSAI. ISSN: 0090-9556. Publisher: American Society for Pharmacology and Experimental Therapeutics.

IT **83802-21-5 83802-22-6**  
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)  
 (stereoselective metab. of ifosfamide by human P-450S 3A4 and 2B6)  
 RN 83802-21-5 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, 3-(2-chloroethyl)tetrahydro-, 2-oxide, (2R)- (9CI) (CA INDEX NAME)

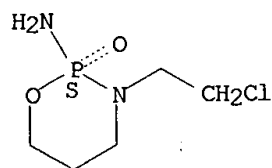
Absolute stereochemistry. Rotation (+).





RN 83802-22-6 CAPLUS  
 CN 2H-1,3,2-Oxazaphosphorin-2-amine, 3-(2-chloroethyl)tetrahydro-, 2-oxide,  
 (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



AB The anticancer **prodrug** ifosfamide (IFA) contains a chiral phosphorous atom and is administered clin. as a racemic mixt. of R and S enantiomers. Animal model studies and clin. data indicate enantioselective differences in cytochrome P 450 (CYP) metab., pharmacokinetics, and therapeutic efficacy between the two enantiomers; however, the metab. of individual IFA enantiomers has not been fully characterized. The role of CYP enzymes in the stereoselective metab. of R-IFA and S-IFA was investigated by monitoring the formation of both 4-hydroxy (activated) and N-dechloroethyl (DCI) (inactive, neurotoxic) metabolites. In the 4-hydroxylation reaction, cDNA-expressed CYPs 3A4

and 3A5 preferentially metabolized R-IFA, whereas CYP2B6 was more active toward S-IFA. Enantioselective IFA 4-hydroxylation (R > S) was obsd.

with six of eight human liver samples. In the N-dechloroethylation reaction, CYPs 3A4 and 2B6 both catalyzed a significantly higher intrinsic metabolic

clearance ( $V_{max}/K_m$ ) of S-IFA compared with R-IFA. Striking P 450 form specificity in the formation of individual DCI metabolites was evident. CYPs 3A4 and 3A5 preferentially produced (R)N2-DCI-IFA and (R)N3-DCI-IFA (derived from R-IFA and S-IFA, resp.), whereas CYP2B6 correspondingly formed (S)N3-DCI-IFA and (S)N2-DCI-IFA. In human liver microsomes, the CYP3A-specific inhibitor troleandomycin suppressed (R)N2- and (R)N3-DCI-IFA formation by .gtoreq.80%, whereas (S)N2- and (S)N3-DCI-IFA formation were selectively inhibited (.gtoreq.85%) by a CYP2B6-specific monoclonal antibody. The overall extent of IFA N-dechloroethylation varied with the CYP3A4 and CYP2B6 content of each liver, but was significantly lower for R-IFA (32 .+- . 13%) than for S-IFA (62 .+- . 17%,

n = 8; p < .001) in all livers examd. R-IFA thus has more favorable liver metabolic properties than S-IFA with respect to less extensive N-dechloroethylation and more rapid 4-hydroxylation, indicating that

R-IFA may have a distinct clin. advantage over racemic IFA.

1999:448687 Document No. 131:170553 A new cyclic phosphoramidate d4T **prodrug** approach cycloAmb-d4T-phosphoramidates. Lorey, Martina; Meier, Chris (Institut fur Organische Chemie, Universitat Hamburg, Hamburg, D-20146, Germany). Nucleosides Nucleotides, 18(4 & 5), 947-948 (English) 1999. CODEN: NUNUD5. ISSN: 0732-8311. Publisher: Marcel Dekker, Inc..

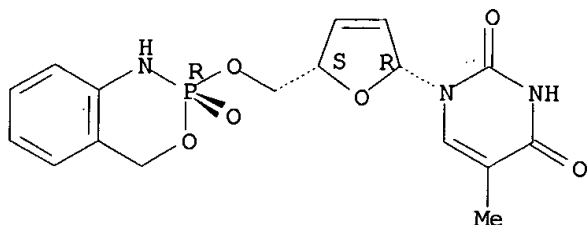
IT **239136-33-5P 239136-34-6P 239136-35-7P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of cycloaminobenzyl dehydrodideoxythymidine phosphoramidates a new cyclic phosphoramidate **prodrug** approach for d4T)

RN 239136-33-5 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2R,5S)-5-[[[(2R)-1,4-dihydro-2-oxido-2H-3,1,2-benzoxazaphosphorin-2-yl]oxy]methyl]-2,5-dihydro-2-furanyl]-5-methyl- (9CI) (CA INDEX NAME)

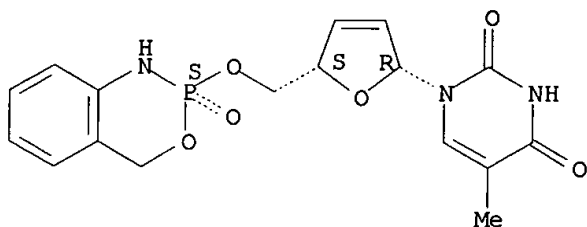
Absolute stereochemistry.



RN 239136-34-6 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2R,5S)-5-[[[(2S)-1,4-dihydro-2-oxido-2H-3,1,2-benzoxazaphosphorin-2-yl]oxy]methyl]-2,5-dihydro-2-furanyl]-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

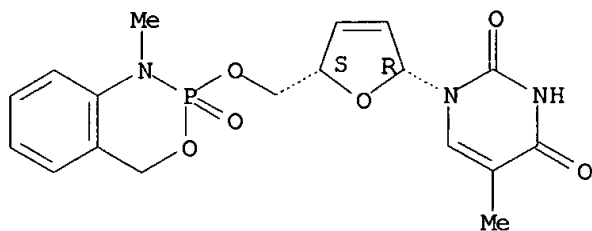


RN 239136-35-7 CAPLUS

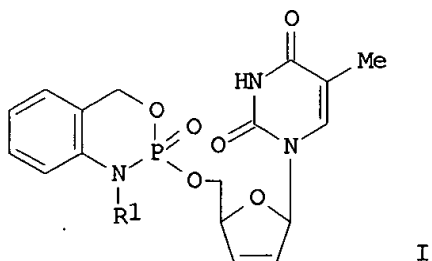
CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2R,5S)-5-[[[(1,4-dihydro-1-methyl-2-oxido-2H-3,1,2-benzoxazaphosphorin-2-yl]oxy]methyl]-2,5-dihydro-2-furanyl]-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

12, 4, 17, 11, 12, 13  
17, 18, 19, 20  
21, 29



GI



I

AB A new potential phosphoramidate **prodrug** approach for d4T is described. In hydrolyzes studies the cycloaminobenzyl-d4T-phosphoramidates, e.g. I (R1 = H, Me) proved to deliver d4TMP following a tandem reaction.

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LOGOFF? (Y)/N/HOLD:.

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

157.69

325.38

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

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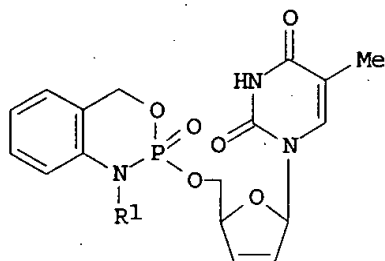
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# BEST AVAILABLE COPY

1999:448687 Document No. 131:170553 A new cyclic phosphoramidate d4T  
prodrug

approach cycloAmb-d4T-phosphoramidates. Lorey, Martina; Meier,  
Chris (Institut für Organische Chemie, Universität Hamburg, Hamburg,  
D-20146, Germany). Nucleosides Nucleotides, 18(4 & 5), 947-948 (English)  
1999. CODEN: NUNUD5. ISSN: 0732-8311. Publisher: Marcel Dekker,  
Inc..

GI



I

AB A new potential phosphoramidate prodrug approach for d4T is described.

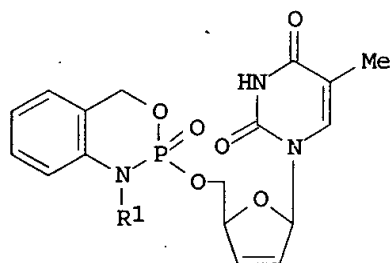
In hydrolyzes studies the cycloaminobenzyl-d4T-phosphoramidates, e.g. I (R1  
=  
H, Me) proved to deliver d4TMP following a tandem reaction.

# BEST AVAILABLE COPY

1999:448687 Document No. 131:170553 A new cyclic phosphoramidate d4T  
prodrug

approach cycloAmb-d4T-phosphoramidates. Lorey, Martina; Meier,  
Chris (Institut für Organische Chemie, Universität Hamburg, Hamburg,  
D-20146, Germany). Nucleosides Nucleotides, 18(4 & 5), 947-948 (English)  
1999. CODEN: NUNUD5. ISSN: 0732-8311. Publisher: Marcel Dekker,  
Inc..

GI



I

AB A new potential phosphoramidate prodrug approach for d4T is described.

In hydrolyzes studies the cycloaminobenzyl-d4T-phosphoramidates, e.g. I (R1  
=  
H, Me) proved to deliver d4TMP following a tandem reaction.



Creation date: 12-17-2003  
Indexing Officer: CCHANG4 - CHRISTOPHER CHANG  
Team: OIPEBackFileIndexing  
Dossier: 09518501

Legal Date: 02-25-2002

No.	Doccode	Number of pages
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6	CLM	46
7	REM	61

Total number of pages: 114

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